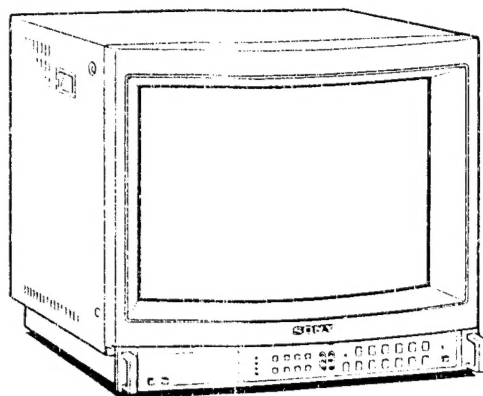


# SERVICE MANUAL

*AEP Model*  
Chassis No. SCC-C74D-A



## SPECIFICATION

### Video signal

#### Frequency response

Line input: More than 7 MHz (−3 dB)  
Y/C input: More than 8 MHz (−3 dB)  
Component input (Y/R-Y/B-Y): More than 8 MHz (−3 dB)  
R.G.B. input (analog): More than 9 MHz (−3 dB)

#### Aperture correction

−4.5 to +6.5 dB (at 4.5 MHz)

#### Synchronization

AFC time constant: 1 msec

#### Line pull range

Horizontal: ±500 Hz  
Vertical: 8 Hz

### Picture performance

Normal scan 7% overscan of CRT effective screen area  
Under scan 3% underscan of CRT effective screen area  
H. linearity error Less than 8%  
V. linearity error Less than 7%  
Convergence Central area: 0.7 mm (Typical)  
Peripheral area: 1.3 mm (Typical)

#### Raster size stability

H: 1.0%, V: 1.5%

#### High voltage regulation

4%

Audio output 0.6 W (Max.)

CRT EBU

#### Color temperature

6,500°K/9,300°K (±8MPCD), selectable

#### AC regulation range

220 – 240 V AC, 50/60 Hz

#### Power consumption

Approx. 98 W/h

### Inputs

VIDEO IN: BNC connector

AUDIO IN: phono jack

VTR: 8-pin connector (See "VTR connector" on page 9.)

Y/C-INPUT

VIDEO: 4-pin connector (See "Y/C-INPUT connector" on page 10.)

AUDIO: phono jack

EXT SYNC: BNC connector

composite sync 1 – 4 Vp-p, negative, 75 ohms terminated, automatically released when cable is connected to the output connector.

ANALOG RGB: BNC connector

0.7 Vp-p, ±6 dB, non composite

75 ohms terminated, automatically released when cable is connected to the output connector.

DIGITAL RGB: 9-pin connector (See "DIGITAL RGB connector" on page 9.)

CTRL S: Minijack

### Outputs

VIDEO OUT: BNC connector

Loop-through

AUDIO OUT: Phono jack

Loop-through

EXT SYNC: BNC connector

Loop-through

ANALOG RGB: BNC connector

Loop-through

CTRL S: Minijack

Loop-through

### General

Dimensions Approx. 452 × 458 × 513 mm (w/h/d)  
(17 7/8 × 18 1/8 × 20 1/4 inches)

Weight Approx. 31.0 kg (68 lb 5 oz)

Supplied accessories Control cover (1) Rack mounting bracket (for EIA standard racks) (1 set)

— Continued on next page —

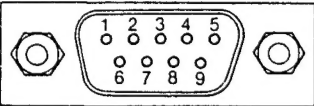


TRINITRON® COLOR VIDEO MONITOR  
**SONY®**

PVM-2043MD

Pin assignment

DIGITAL RGB connector (9-pin)



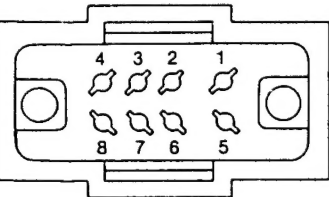
Pin No.	Signal	Signal level
1	GND (ground)	GND
2	GND for the signal	GND
3	Red input	Positive polarity (TTL level)
4	Green input	↑
5	Blue input	↑
6	Intensity	↑
7	NC (no connection)	↔
8	H-SYNC	Positive or negative polarity (TTL level)
9	V-SYNC	Same polarity as H-SYNC (TTL level)

Note

If the intensity function of Pin No. 6 is not used, set the internal switch on the Qd board to the B position, and connect the Pin No. 6 to the GND. With this setting, when the positive intensity signal synchronized to the characters on the screen is fed, the luminance of the characters will be increased.

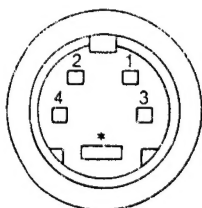
If the specific intensity function, such as that of an IBM microcomputer, is used, set the internal switch on the Qd board to the A position, and feed the intensity control signal to Pin No. 6.

VTR connector (8-pin)



Pin No.	Signal	Description
1	Audio input	-5 dBs, high input impedance (more than 47 kilohms)
2	Video input	Composite 1 Vp-p, sync negative, 75 ohms
3	GND	GND
4	NC	↔
5	GND	GND
6	GND	GND
7	GND	GND
8	GND	GND

Y/C (Y/C separate) INPUT connector (4-pin)

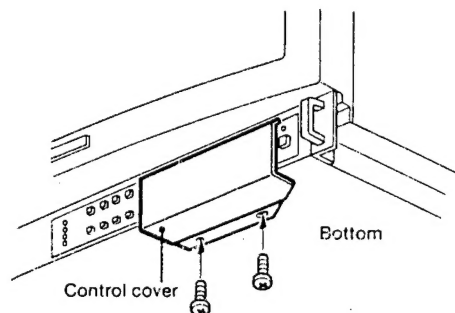


Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	300 mVp-p, burst Delay time between Y and C: within $0 \pm 100$ nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND
*	(Slot for internal switch)	Press the switch inside this slot. The signal from Y/C-INPUT connector has priority over the one from VTR (8-pin) connector.

Design and specifications subject to change without notice.

### Attaching the control cover

In order to protect the control buttons on the front panel from undesired touching, attach the supplied control cover.



Secure the control cover with the screws.


TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1. GENERAL</b>			<b>5. CIRCUIT ADJUSTMENTS</b>		
1-1.	Location and Function of Parts and Controls .....	5	5-1.	A Board Adjustments .....	19
<b>2. DISASSEMBLY</b>			5-2.	XA Board Adjustment .....	22
2-1.	Rear Cover Removal .....	8	5-3.	BA Board Adjustments .....	23
2-2.	Terminal Bracket Removal .....	8	<b>6. DIAGRAMS</b>		
2-3.	Cabinet Assy, Bottom Removal .....	8	6-1.	Frame Schematic Diagram .....	25
2-4.	Control Unit Removal .....	9	6-2.	Block Diagrams .....	27
2-5.	Service Position .....	10	6-3.	Printed Wiring Boards .....	36
2-6.	Picture Tube Removal .....	11	6-4.	Circuit Boards Location .....	41
<b>3. SET-UP ADJUSTMENTS</b>			6-5.	Schematic Diagrams .....	42
3-1.	Beam Landing .....	12	6-6.	Semiconductors .....	64
3-2.	Convergence .....	13	<b>7. EXPLODED VIEWS</b>		
3-3.	Focus .....	14	7-1.	Chassis .....	65
3-4.	White Balance .....	15	7-2.	Picture Tube .....	66
<b>4. SAFETY RELATED ADJUSTMENT</b> .....		17	<b>8. ELECTRICAL PARTS LIST</b> .....		67

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

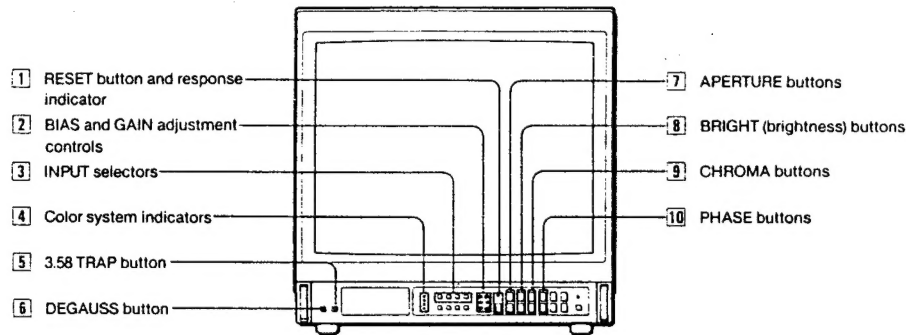
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.



## Front panel

The illustration shows the front panel of PVM-2043MD. The name and location of parts and controls are same for PVM-1443MD, except for the DEGAUSS button and 3.58 TRAP button which are equipped with PVM-2043MD only.



### 1 RESET button and response indicator

Press to return the PHASE, CHROMA, BRIGHT and APERTURE control settings to the factory set levels. The response indicator flashes when the above buttons, the CONTRAST button, the VOL button or the RESET button is pressed.

### 2 BIAS and GAIN adjustment controls

Used for white balance adjustment. GAIN and BIAS controls are provided for the R (red), G (green) and B (blue) screens.

**BIAS:** Adjust the white balance and brightness of the screen at the lowlight with these controls.

**GAIN:** Adjust the white balance and contrast of the screen at the highlight with these controls.

### 3 INPUT selectors

Press to select the program to be monitored.

**A:** for a signal fed through the LINE A connectors.

**B:** for a signal fed through the LINE B connectors.

**Y/C/VTR:** for a signal fed through the Y/C-INPUT connectors or VTR connector.

When both the Y/C-INPUT and VTR connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connector has priority over the one fed through the VTR connector.

**RGB:** for a signal fed through the ANALOG RGB connectors or DIGITAL RGB connector selected with [14] ANALOG/DIGITAL (EXT SYNC) button.

### 4 Color system indicators

The indicator of the color system being received lights up in red.

### 5 3.58 TRAP button (NTSC 3.58 only) (PVM-2043MD only)

Normally set this button in the released position (OFF) to obtain fine picture details without color spill or color noise. When a microcomputer, such as APPLE II, is connected and stripes appear, depress this button (ON).

### 6 DEGAUSS button (PVM-2043MD only)

Press this button momentarily. The screen will be demagnetized for approximately 5 seconds. Wait for 10 minutes or more before activating the button again.

### 7 APERTURE buttons

Press + for more sharpness or - for less.

### 8 BRIGHT (brightness) buttons

Press + for more brightness or - for less.

### 9 CHROMA buttons

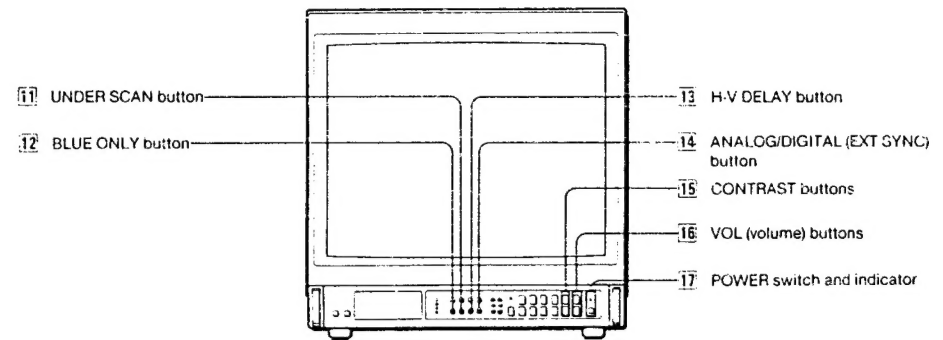
Press + for more color intensity or - for less.

### 10 PHASE buttons

This button is effective only for the NTSC3.58 and NTSC4.43 color system. Press GRN (green) to make the skin tones greenish or PUR (purple) to make them purplish.

## Note

The APERTURE, CHROMA, PHASE control settings have no effect on the pictures of analog RGB or digital RGB signals.



### 11 UNDER SCAN button

Depress for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

### 12 BLUE ONLY button

Depress to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and observation of VTR noise.

\* "Phase" control adjustment is effective only for the NTSC signals.

### 13 H-V DELAY button

Depress to observe the horizontal and vertical sync signals at the same time.

The horizontal sync signal is displayed in the left quarter of the screen; the vertical signal is displayed near the center of the screen.

### 14 ANALOG/DIGITAL (EXT SYNC) button

This button functions as ANALOG/DIGITAL selector and EXT SYNC selector.

**As ANALOG/DIGITAL selector**

Depress to monitor a signal fed through the ANALOG RGB connectors.

Release to monitor a signal fed through the DIGITAL RGB connector.

**For EXT SYNC selector**

Depress to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel (EXT).

Release to operate the monitor on the sync signal from the displayed composite video signal (INT).

### 15 CONTRAST buttons

Press + to make the contrast, color intensity and brightness stronger or - to make them weaker.

### 16 VOL (volume) buttons

Press + for more volume or - for less.

### 17 POWER switch and indicator

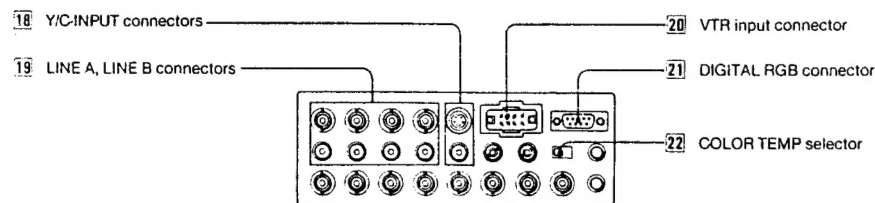
Depress to turn the monitor on. The indicator will light up in green. Press the switch again to turn the monitor off.

## Picture Adjustment Buttons

The picture adjustment buttons operate in the following input mode (indicated as "Yes").

Button	Input mode	
	• LINE A, LINE B • Y/C • VTR	• Digital RGB • Analog RGB
APERTURE	Yes	No
BRIGHT	Yes	Yes
CHROMA	Yes	No
PHASE	Yes (NTSC only)	No
CONTRAST	Yes	Yes
VOL	Yes	No

## Rear panel



### 18 Y/C-INPUT connectors

**VIDEO (4-pin):** Connect to the Y/C separate output of a video camera or a VTR.  
**AUDIO:** Connect to the audio output of a video camera or a VTR.  
 To monitor the input signal fed through these connectors, press the Y/C/VTR button on the front panel.

### 19 LINE A, LINE B connectors

Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.  
 To monitor the input signal fed through these connectors, press the A or B button on the front panel.

**VIDEO IN (BNC type):** Connect to the video output of a video equipment, such as a VTR or a color video camera.

**VIDEO OUT (BNC type):** Loop-through output of the VIDEO IN connector. Connect to the video input for a VTR or another monitor.

When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.

**AUDIO IN (phono jack):** Connect to the audio output of a VTR or to a microphone via a suitable microphone amplifier.

**AUDIO OUT (phono jack):** Loop-through output of the AUDIO IN jack. Connect to the audio input of a VTR or another monitor.

### 20 VTR input connector (8-pin)

Line input for the video and audio signals. When connected to the 8-pin TV connector of a VTR, the video and audio playback signal from the VTR can be input through a single cable.

To monitor the input signal fed through this connector, press the Y/C/VTR button on the front panel, with the Y/C-INPUT connectors connected to no outputs. When both VTR and Y/C-INPUT connectors are connected to video equipment, the input signal fed through the Y/C-INPUT connectors has priority over the one fed through the VTR connectors.

### 21 DIGITAL RGB connector (9-pin)

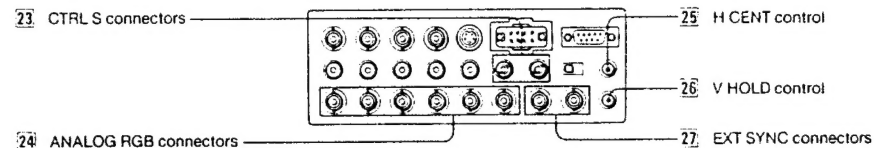
Connect with a microcomputer having a digital (TTL level) RGB video output.  
 To monitor the input signal fed through this connector, press the RGB button and keep the ANALOG/DIGITAL (EXT SYNC) button released.

### Note

For connection of digital RGB signal, be sure to use an optional SMF-520 connecting cable.

### 22 COLOR TEMP (temperature) selector

Select the color temperature position, 9300 K or 6500 K.



### 23 CTRL S (control S) connectors (mini-jack)

For remote control of the APERTURE, BRIGHT, CHROMA, PHASE, CONTRAST and VOL control buttons.

**IN:** Connect to the "control S" output of other equipment.

**OUT:** Connect to the CTRL S IN connector of another monitor by using a connecting cord (mini-plug ↔ mini-plug).

### 24 ANALOG RGB connectors (BNC type)

**R/G/B IN:** Connect to the analog R/G/B outputs of a video camera.

To monitor a signal fed through these connectors, press the RGB button and depress the ANALOG/DIGITAL (EXT SYNC) button.

**R/G/B OUT:** Loop-through outputs of the R/G/B IN connectors. Connect to the analog R/G/B inputs of a video camera.

When the cable is connected to these connectors, the 75-ohm termination of the input is released, and the signal input to the R/G/B IN connectors is output from these connectors.

### 25 H CENT (horizontal centering) control

When a digital R/G/B signal is monitored, turn to center the picture if it is decentered.

### 26 V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

### 27 EXT SYNC (external sync) connectors (BNC type)

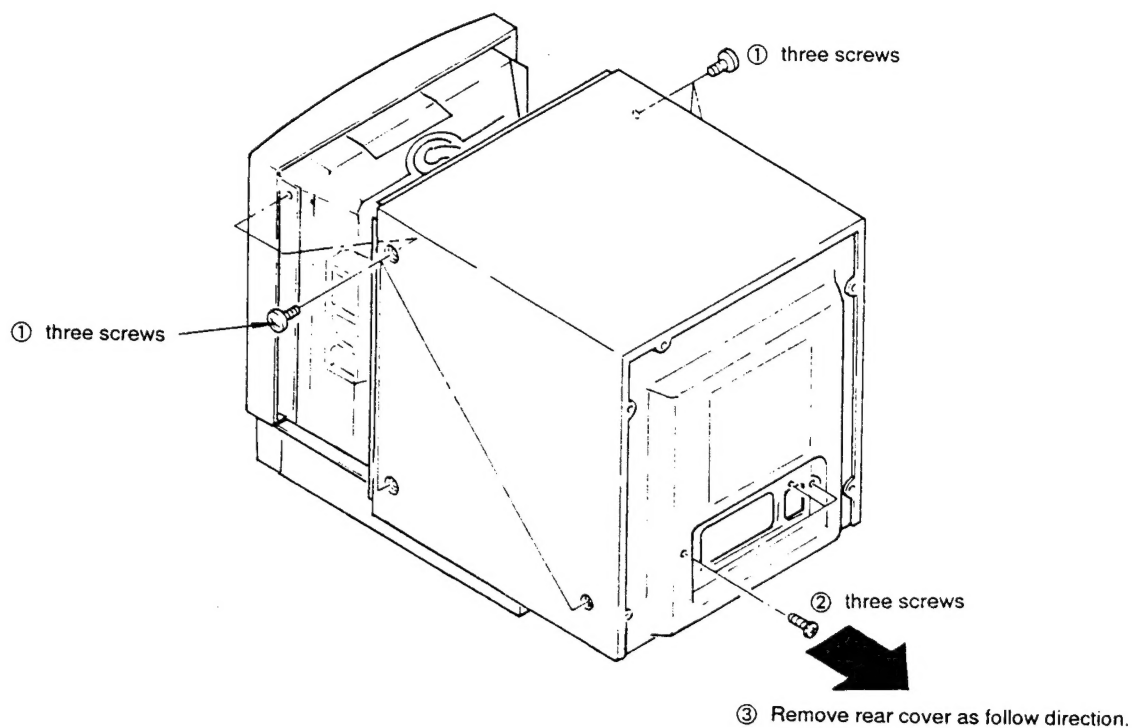
**IN:** Connect to the output of a sync generator.

To monitor the sync signal fed through this connector, depress the ANALOG/DIGITAL (EXT SYNC) button.

**OUT:** Loop-through output of the SYNC IN connector. Connect to the SYNC input of a video camera. When the cable is connected to this connector, the 75-ohm termination of the input is released, and the signal input to the IN connector is output from this connector.

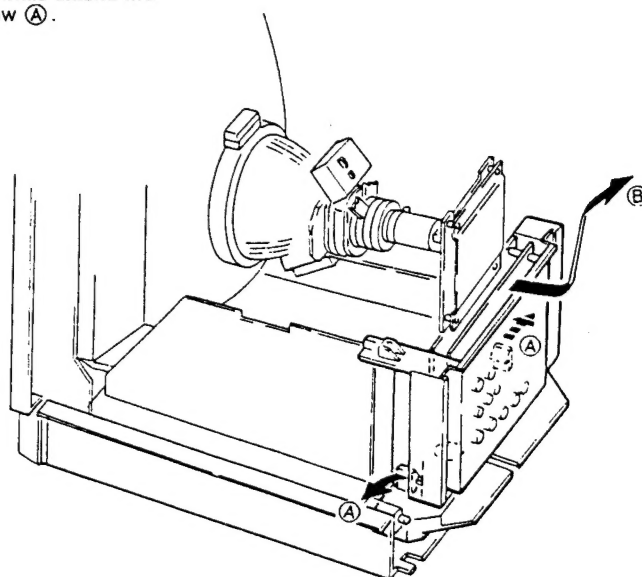
## SECTION 2 DISASSEMBLY

### 2-1. REAR COVER REMOVAL

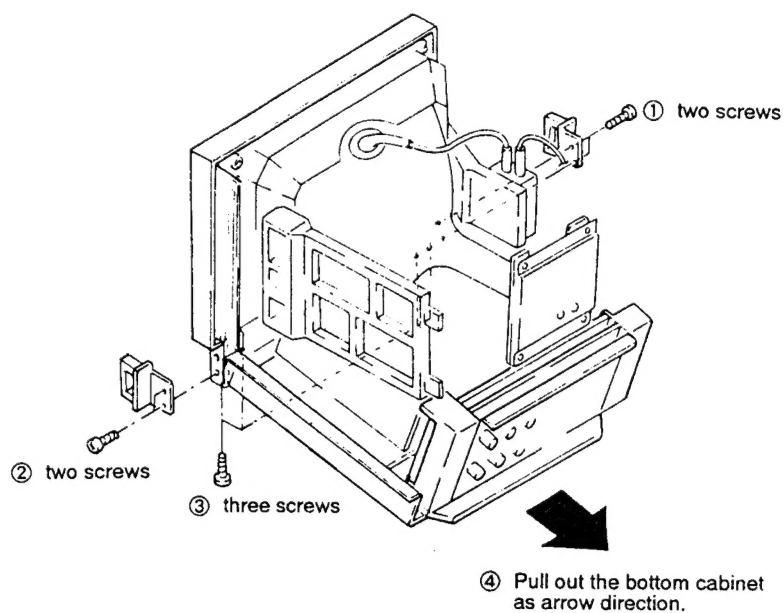


### 2-2. TERMINAL BRACKET REMOVAL

- ① Remove the terminal bracket as arrow ② while extend two claws as arrow ①.

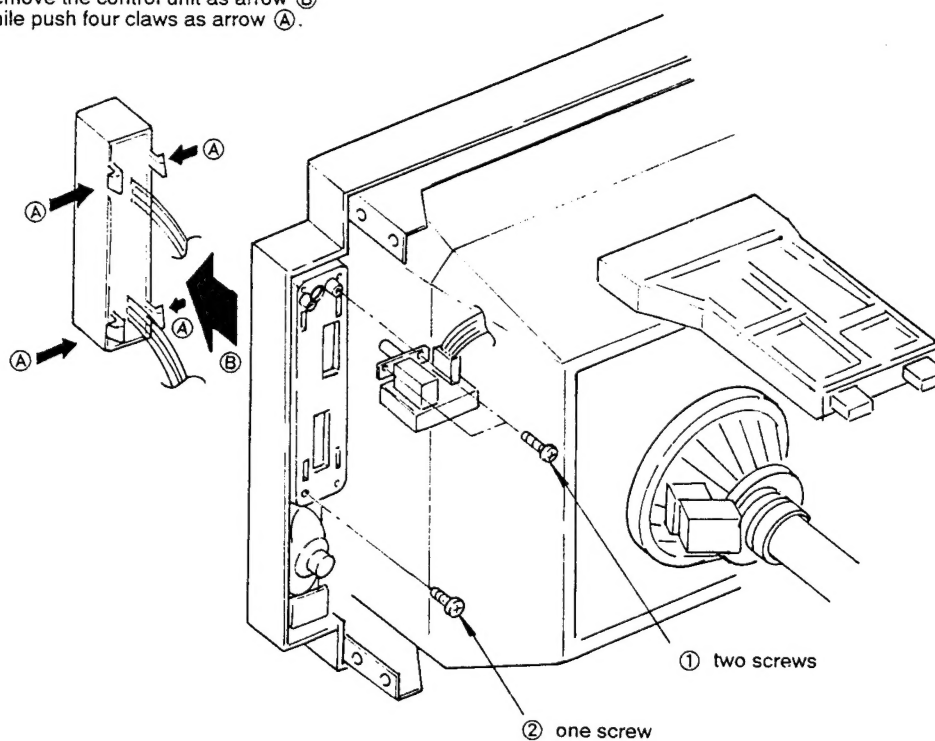


## 2-3. CABINET ASSY, BOTTOM REMOVAL



## 2-4. CONTROL UNIT REMOVAL

- ③ Remove the control unit as arrow ③ while push four claws as arrow ④.



2-5. SERVICE POSITION

Remove the connectors and chassis in order as follows.

- ① A-4, A-5 (from control panel)
- ② A-2 (from speaker)
- ③ C536 (A board) next earth lead wire (from picture tube)
- ④ T-3 (from H board)
- ⑤ P-4 (from H board)

⑦ Remove F-5 to A-1 connector from F board bracket.

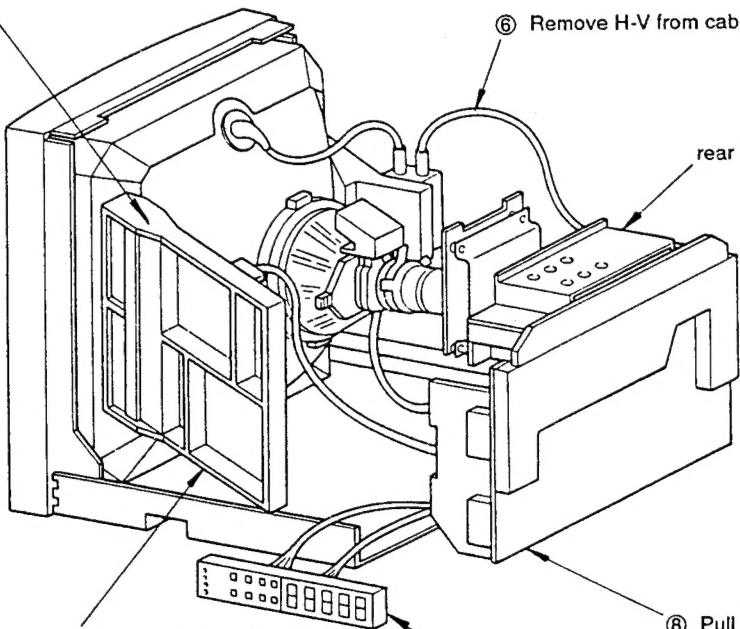
⑥ Remove H-V from cable clamps.

rear terminal board

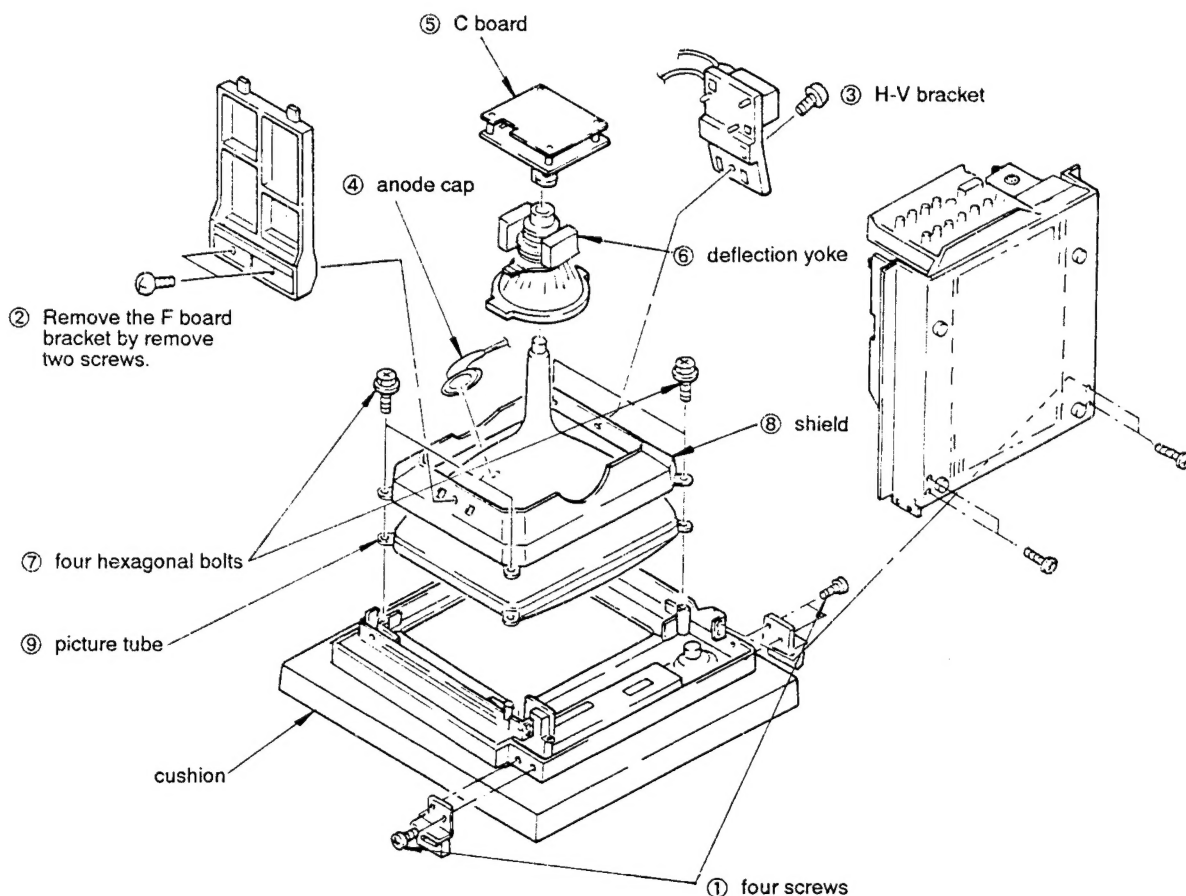
Hang on the F board to picture tube shielded as drawing  
(two screws).

cabinet unit

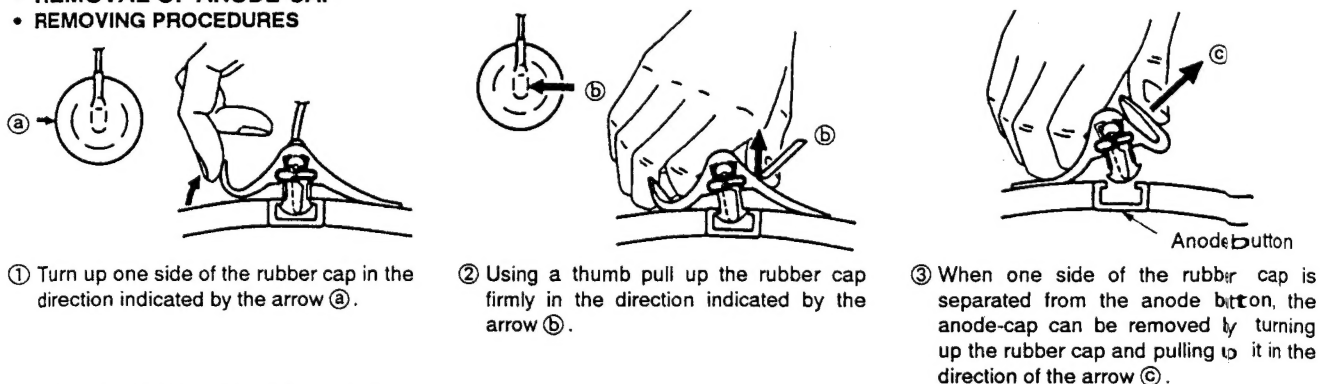
⑧ Pull out the main chassis.



## 2-6. PICTURE TUBE REMOVAL

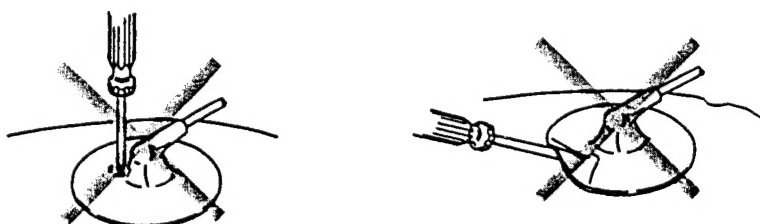


### • REMOVAL OF ANODE-CAP • REMOVING PROCEDURES



### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !  
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly !  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control ..... 80%  
BRIGHTNESS control ..... 50%

Perform the adjustments in order as follows:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

**Note:** Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. Color Analyzer
4. Luminance Level Meter
5. Oscilloscope

#### Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

#### 3-1. BEAM LANDING

1. Receive an entirely white signal with the pattern generator.  
CONTRAST ..... MAX.  
BRIGHTNESS ..... set easy to observe
2. Adjust the focus and the horizontal convergence roughly.
3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
4. Switch over the pattern generator to green.
5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig. 3-2)
6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
7. When landing at the corners is not right, correct by using the magnet. (Fig. 3-3)
8. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

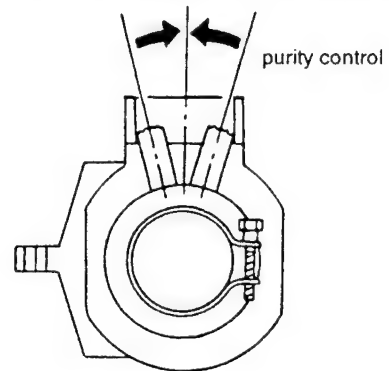


Fig. 3-1

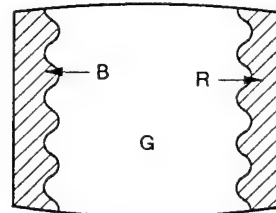


Fig. 3-2

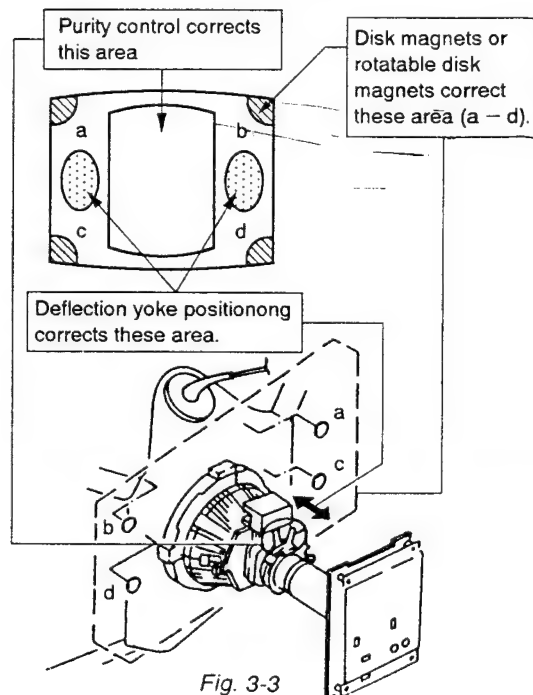
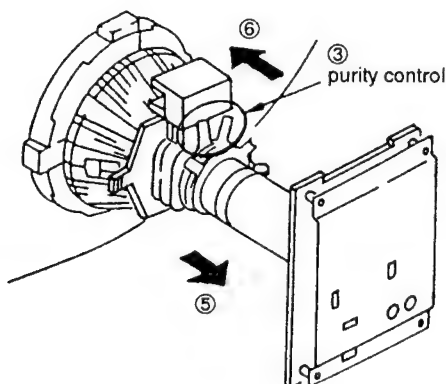


Fig. 3-3

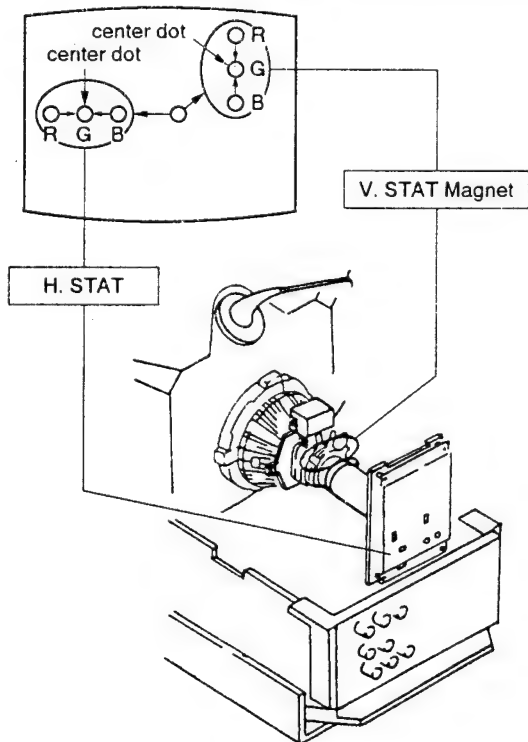
### 3-2. CONVERGENCE

#### (1) Horizontal and Vertical Static Convergence Adjustment on the Center of Screen.

- Before starting, perform V. SIZE, V. CENT, H. SIZE, H. CENT and Screen Distortion adjustment rightly.

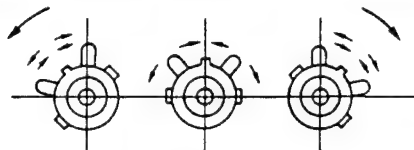
#### (Static Convergence Adjustment)

- Receive a dot signal and Set CONTRAST to normal.
- Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



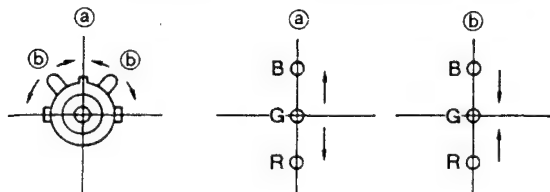
- ※ If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform adjustment using V. STAT at the same time while tracking.

(Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.)

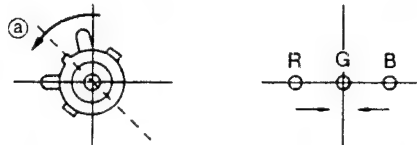


- When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

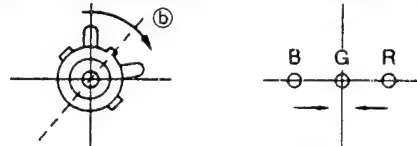
#### ① When moving the V. STAT Magnet open or close.



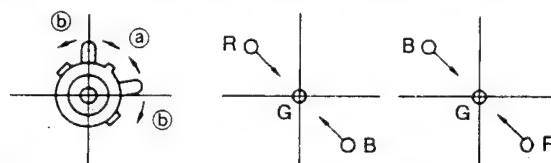
#### ② When moving the V. STAT magnet counterclockwise.



#### ③ When moving the V. STAT magnet clockwise.



#### ④ When tilt the V. STAT magnet and open or close.

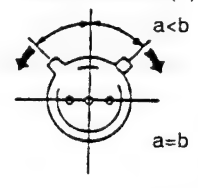


- ※ If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

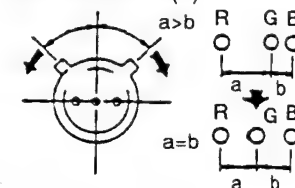
#### • HMC and VMC correction for BMC (6-Poles) magnet.

- HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

#### HMC Correction (A)

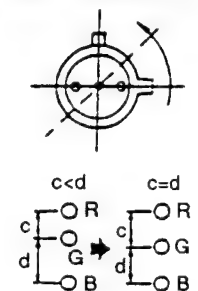


#### HMC Correction (B)

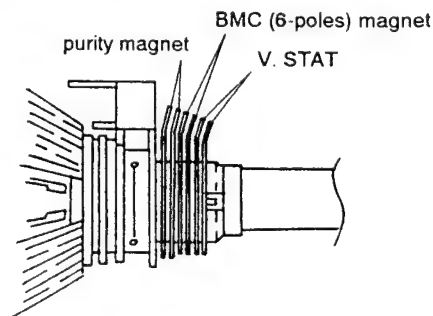
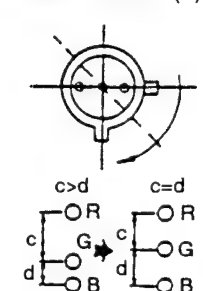


- VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

#### VMC Correction (A)



#### VMC Correction (B)

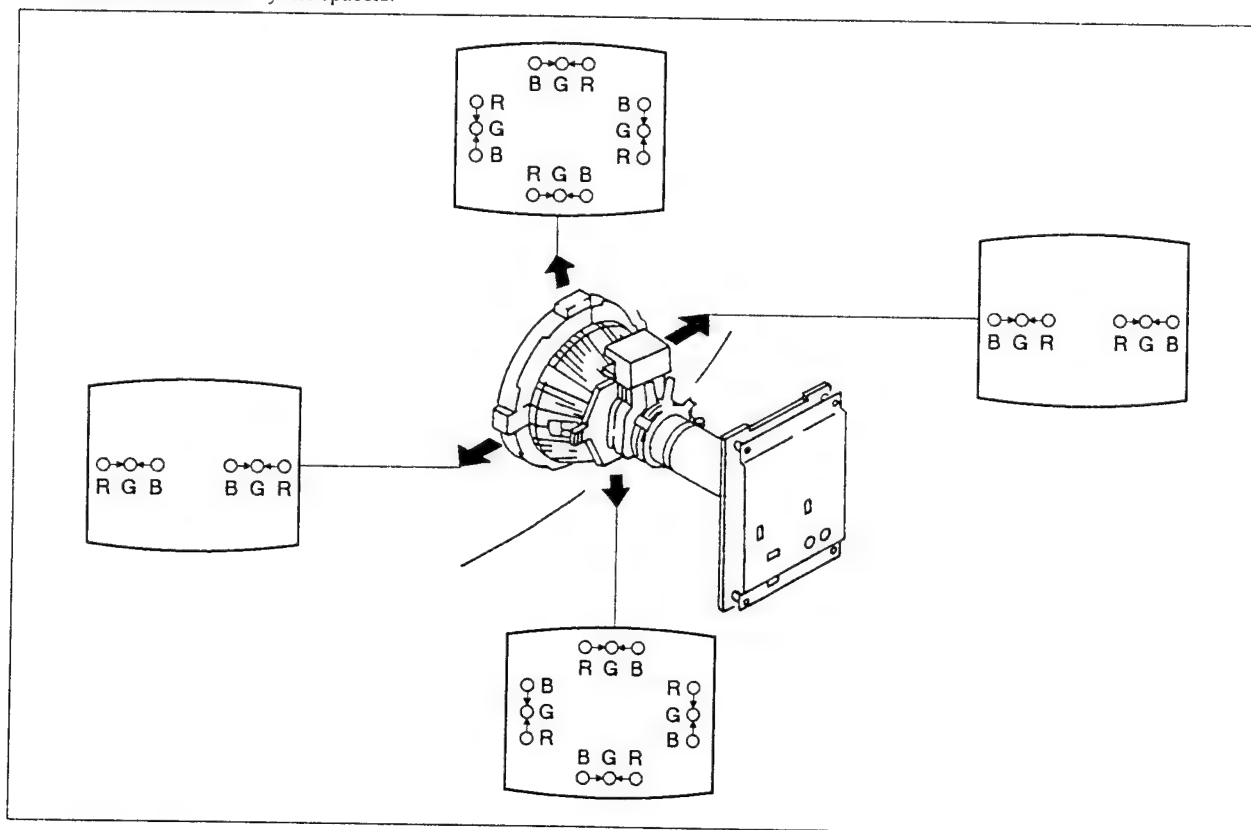




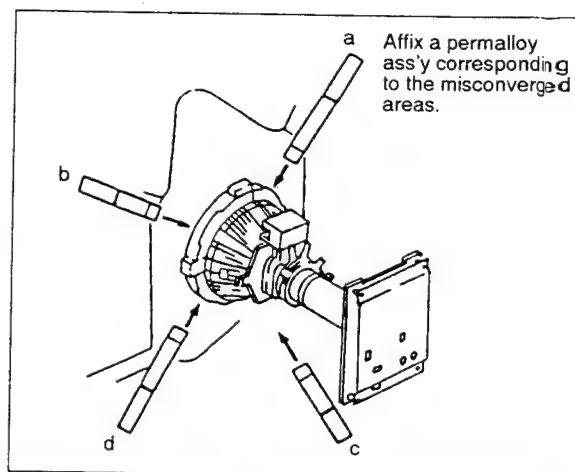
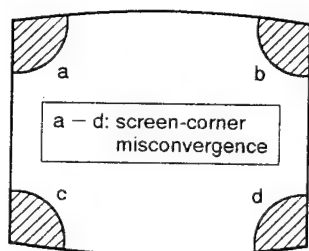
(2) Horizontal and Vertical Dynamic Convergence  
Adjustment the environs of the Screen

(Dynamic Convergence Adjustment)

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



3-3. FOCUS

1. Receive the broadcast.
2. CONTRAST ..... Normal
3. Adjust RV707 so that the focus on the center of screen becomes to the best.

### 3-4. WHITE BALANCE

#### • Screen voltage Adjustment

1. Receive dot signal patterns.
2. Set both BRIGHT and CHROMA to 50%.
3. Use an external DC power supply to apply a voltage of  $180 \pm 1$  VDC to the respective cathodes of R, G, and B.
4. While observing the screen, adjust RV709 (G2VR) to the point just prior to where the retrace lines disappear.

#### • White Balance Adjustment

1. Input signals generated by a monoscope.
2. Set the COLOR TEMP switch to 6500°K.
3. Set BRIGHT, CONTRAST, and CHROMA as follows:  
BRIGHT: 50%  
CONTRAST: 0%  
CHROMA: 50%
4. Adjust RV1710 (SUB-BRIGHT), while changing the gray scale of the monoscope signals from 0 IRE to CUT OFF and from 10 IRE to the point where the luminance is barely visible.
5. Input all-white signals.
6. Set BRIGHT, CONTRAST, and CHROMA as follows:  
BRIGHT: 50%  
CONTRAST: 70%  
CHROMA: 50%
7. Secure the photoreceptor of the luminance meter to the surface of the receiving tube.
8. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
9. With the COLOR TEMP set to 6500°K, adjust RV1705 (R BKG) and RV1704 (B BKG) on the V board to obtain the white balance at the cut off point.
10. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
11. With the COLOR TEMP set to 6500°K, adjust RV1701 (R DRV) and RV1700 (B DRV) on the V board to obtain the white balance in highlighted mode.
12. Repeat Steps 7 through 11 until optimum white balance is achieved.
13. Set the COLOR TEMP switch to 9300°K.
14. Set BRIGHT, CONTRAST, and CHROMA as follows:  
BRIGHT: 50%  
CONTRAST: 70%  
CHROMA: 50%
15. Secure the photoreceptor of the luminance meter to the surface of the receiving tube.
16. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
17. With the COLOR TEMP set to 9300°K, adjust RV1707 (R BKG) and RV1706 (B BKG) on the V board to obtain the white balance at the cut off point.

18. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
19. With the COLOR TEMP set to 9300°K, adjust RV1703 (R DRV) and RV1702 (B DRV) on the V board to obtain the white balance in highlighted mode.
20. Repeat Steps 15 through 19 until optimum white balance is achieved, and then perform the SUB-BRIGHT adjustment described in Step 4.
21. Check that the difference in luminance at 6500°K and 9300°K is no greater than 10 IRE.

#### • White Balance Adjustment for Analog RGB

1. Input all-white signals from the ANALOG RGB input terminal.
2. Secure the photoreceptor of the luminance meter to the surface of the receiving tube.
3. Adjust the LUMINANCE of the Pattern Generator to 8 NIT.
4. Adjust RV1709 (R BKG) and RV1708 (G BKG) on the V board to obtain the white balance at the cut off point.
5. Adjust the LUMINANCE of the Pattern Generator so that the former setting of 100 IRE is restored.
6. Check that the white balance is satisfactory in highlighted mode.

## SECTION 4

### SAFETY RELATED ADJUSTMENTS

#### B+ MAX CONFIRMATION (R690)

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

☒ on F board : IC601, IC602, IC651, D654, D655, C658, C659, R634, R652, R653, R654, R655, R656, R657, R665, R671, R690, RV601

1. Supply 130 $\pm$ 5 V AC to with variable auto-transformer.
2. Receive a dot signal.
3. • CONTRAST .....Minimum  
• BRIGHTNESS .....Minimum
4. Connect a digital multimeter to TP91.
5. Confirm the voltage of TP91 is less than 118.0V DC when rotate RV601 on F board fully clockwise.
6. If step 5 is not satisfied, readjustment should be performed by altering the resistance value of R690 (☒).

#### CONFIRMATION WHEN REPLACING H.V.R (High Voltage Resistor)

The following adjustment should be confirm the output voltage when replacing HVR.

1. Receive an entire white signal.
2. • CONTRAST .....Maximum  
• BRIGHTNESS .....Maximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 16.0 $\pm$ 3.0V DC.

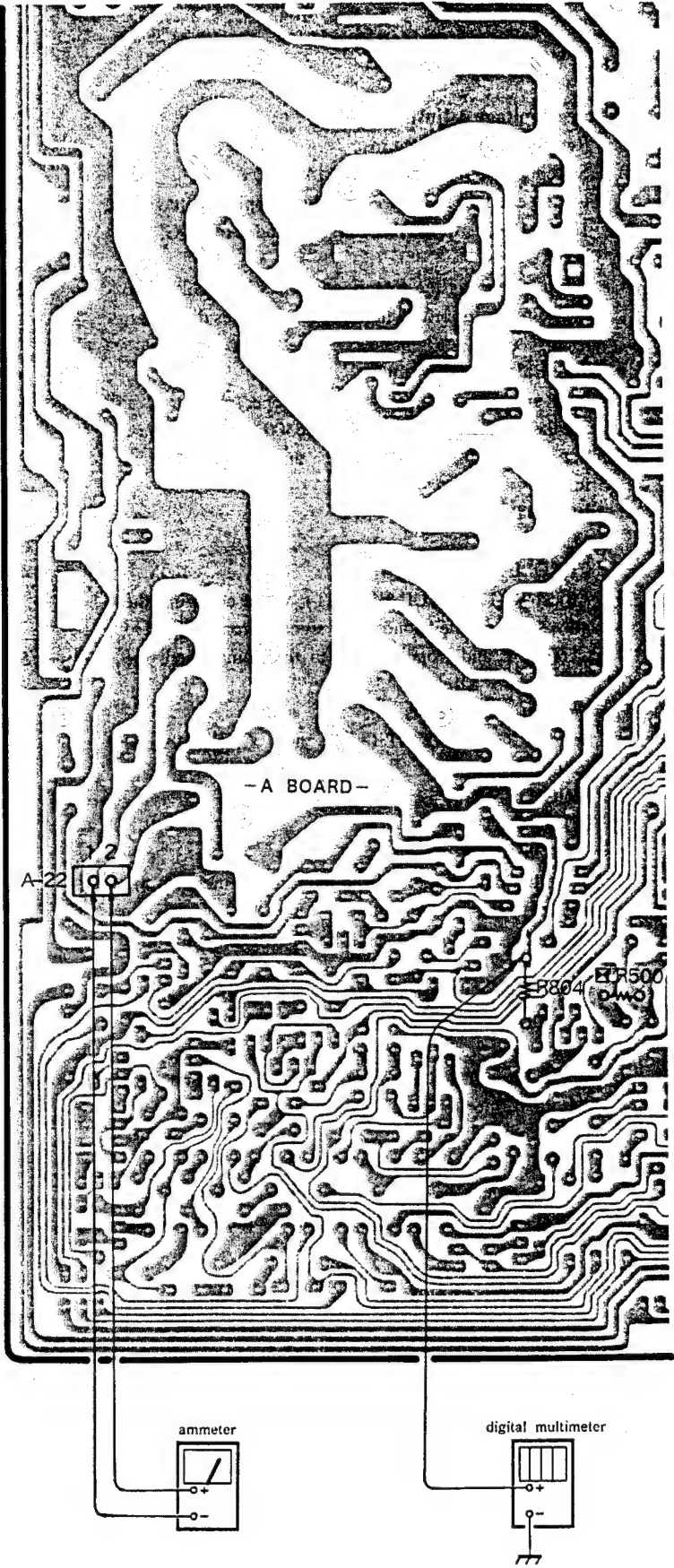
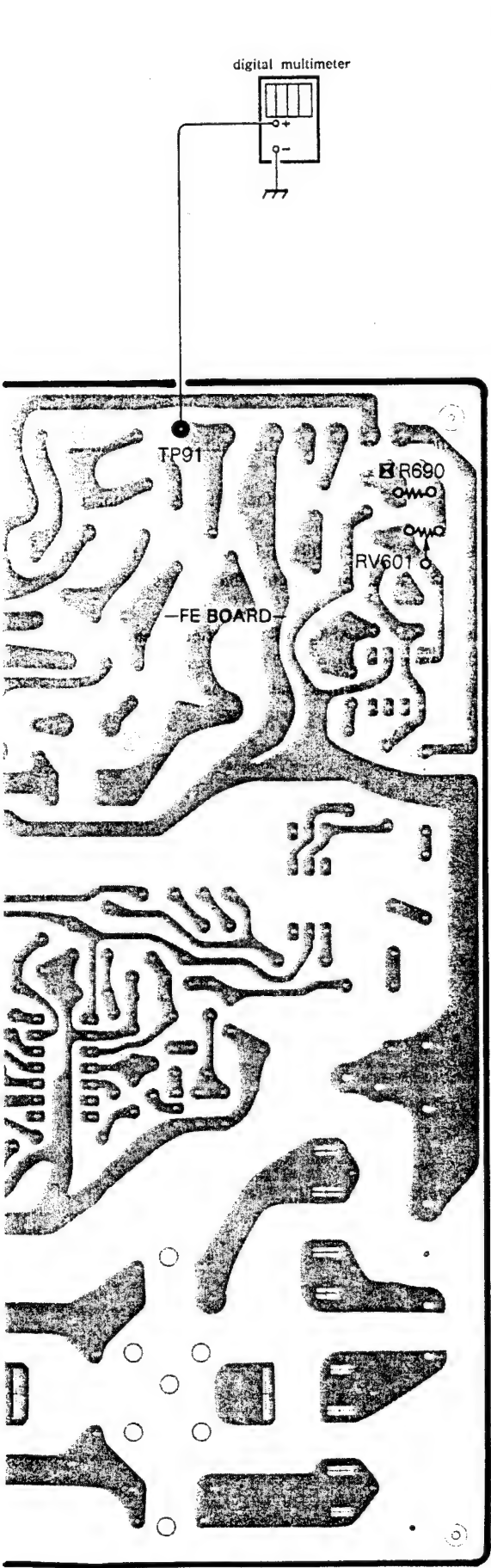
#### ☒ R500, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☒ on the schematic diagram).

☒ on A board : IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524, C525, C526, C527, C528, C529, C530, C531, R500, R506, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R804, HVR

☒ on P board : NL901, C905

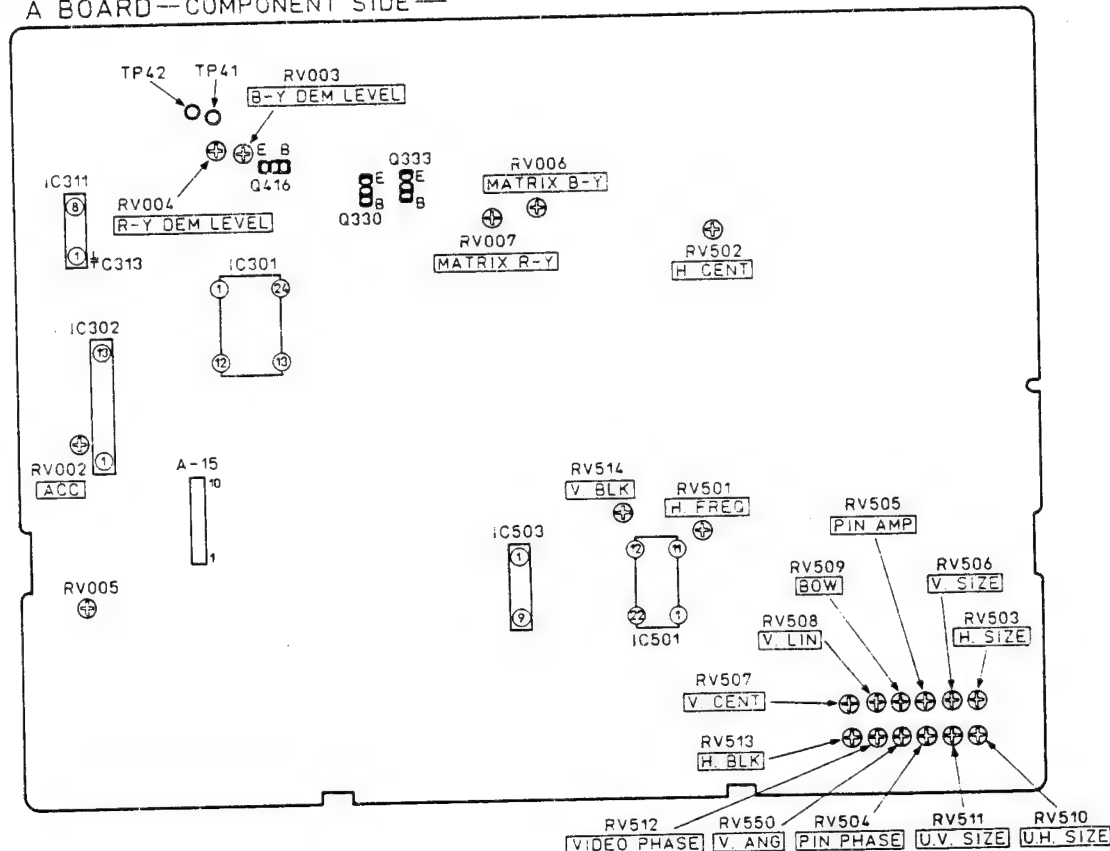
1. Receive an entire white signal.
2. • CONTRAST .....Maximum  
• BRIGHTNESS .....Maximum
3. Connect a digital multimeter to the A-20 connector side lead of R804.
4. Confirm the voltage is 16.0 $\pm$ 3.0V DC.
5. Receive a dot signal.
6. Disconnect A-22 connector (ABL JIG) on A board and connect an ammeter.
7. Adjust BRIGHTNESS and CONTRAST so that the current to 180 $\pm$ 30  $\mu$  A.
8. Apply an external DC voltage gradually to the A-20 connector, side lead of R804, and when the voltage becomes 19.2 $\pm$ 0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
9. Receive an entire white signal.
10. Adjust with BRIGHTNESS and CONTRAST volumes so that the current to 1,020 $\pm$ 40  $\mu$  A.
11. Apply DC voltage to the A-20 connector side lead of R804, and when the voltage becomes 18.3 $\pm$ 0.1V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
12. When step 4 to 11 is not satisfied, readjustment should be performed by altering the resistance value of R500 (☒).



## SECTION 5 CIRCUIT ADJUSTMENTS

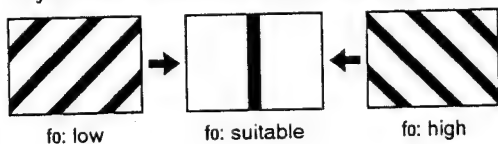
### 5-1. A BOARD ADJUSTMENTS

A BOARD—COMPONENT SIDE—



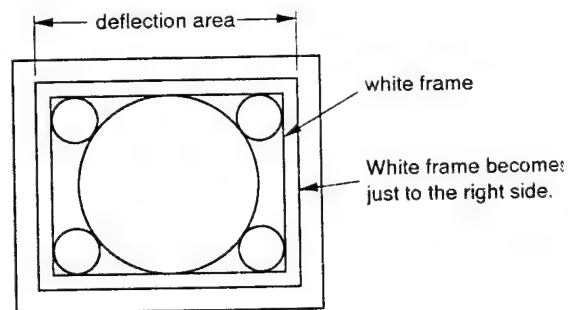
#### HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV501)

1. Receive a monoscope signal.
2. Connect pin ① of IC501 to ground with 100  $\mu$ F/16 V electrolytic capacitor.
3. Adjust RV501 so that the screen streaming stops.



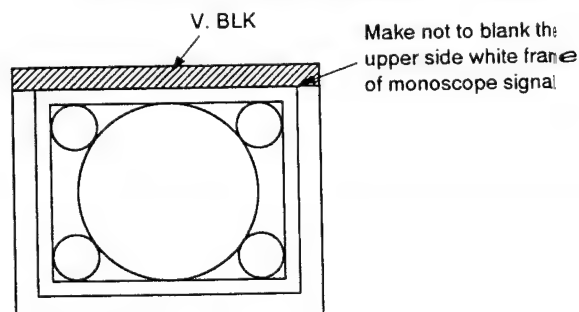
#### U/H, SIZE, VIDEO PHASE, H-V BLK ADJUSTMENTS (RV510, RV512, RV513, RV514)

1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3.
  - CONTRAST ..... Minimum
  - BRIGHTNESS ..... Maximum
4. Adjust RV510 (U. H. SIZE) so that the white frame of monoscope signal becomes visible.
5. Adjust RV512 (Video Phase) so that the white frame of monoscope signal becomes to the right side just on the screen.



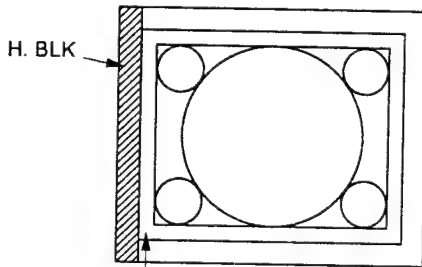
#### 6. V. BLK Adjustment (RV514)

- (1) Adjust RV514 (V. BLK) so that the upper side white frame of monoscope signal is not blanked.



7. H. BLK Adjustment (RV513)

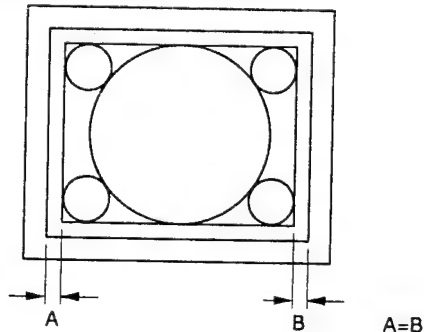
- (1) Adjust with RV513 (H. BLK) so that the vertical line of the white frame of monoscope signal is blanked as following figure.



Make to blank the vertical line of the white frame of monoscope signal.

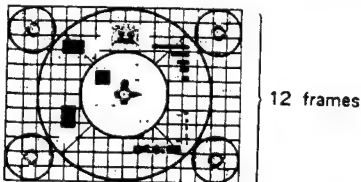
8. Screen Phase Adjustment (RV512)

- (1) Adjust RV512 (Video Phase) so as to equalize the width of the white frame of monoscope signal on both sides of screen right and left.

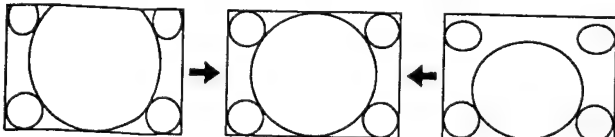


**VERTICAL DEFLECTION PART ADJUSTMENTS (RV506, RV507, RV508, RV511)**

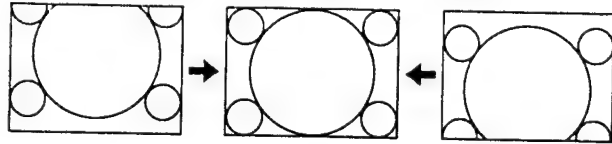
1. Receive a monoscope signal.
2. • CONTRAST ..... 70%  
• BRIGHTNESS ..... 50%
3. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.



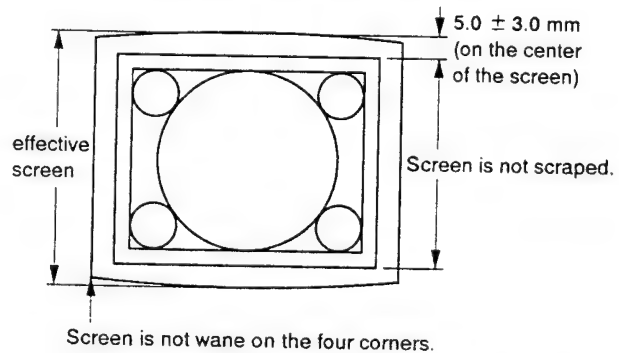
4. Adjust RV508 (V. LIN) the vertical linearity.



5. Adjust RV507 (V. CENT) the vertical position.

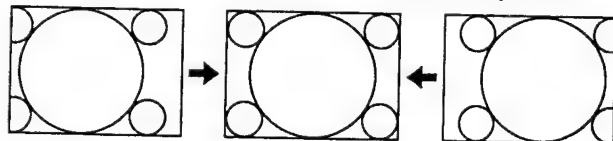


6. Adjust RV506 (V. SIZE) so that the vertical size of monoscope signal becomes  $11.75 \pm 0.2$  frames.
7. Set U/S (Under Scan) switch to Under mode.
8. Adjust with RV511 (U.V. SIZE) as follows.



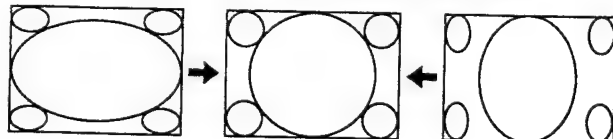
**HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV502, RV503, RV504, RV505, RV509, RV510, RV550)**

1. Receive a monoscope signal.
2. • CONTRAST ..... 70%  
• BRIGHTNESS ..... 50%
3. H. CENT Adjustment (RV502)  
(1) Adjust RV502 (H. CENT) the horizontal position.



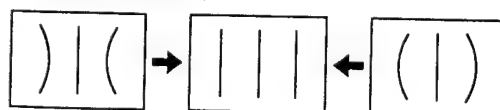
4. H. SIZE Adjustment (RV503)

- (1) Adjust RV503 (H. SIZE) the horizontal size.

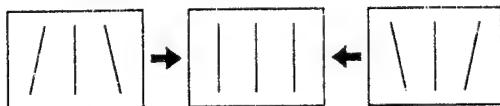


5. PIN AMP, PIN PHASE, V. ANG, BOW Adjustments (RV505, RV504, RV509, RV550)

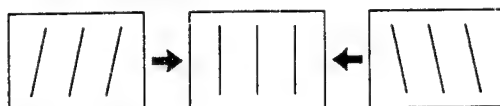
- PIN AMP (RV505)



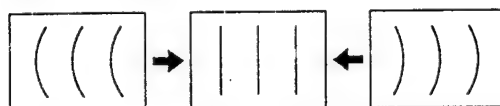
• PIN PHASE (RV504)



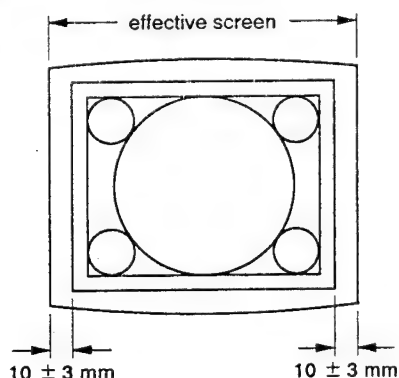
• V. ANG (RV550)



• BOW (RV509)

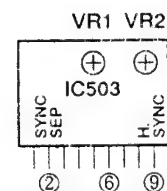
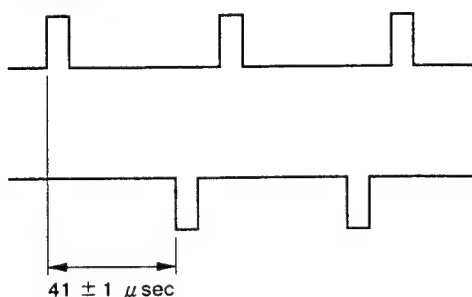


6. Adjust RV503 (H. SIZE) so that the horizontal size becomes  $15.75 \pm 0.2$  frames.
7. Set U/S (Under Scan) switch to Under mode.
8. Adjust RV510 (U.H. SIZE) the Under H. SIZE as follows.



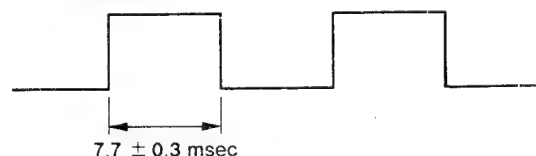
**H-V DELAY ADJUSTMENT (VR1, VR2)**

1. Receive a monoscope signal.
2.
  - CONTRAST ..... 70%
  - BRIGHTNESS ..... 50%
3. Set H-V DELAY switch to DELAY mode.
4. H. DELAY Adjustment (VR1)
  - (1) Connect an oscilloscope to pin ② (SYNC SEP) and pin ⑨ (H. SYNC) of IC503.
  - (2) Adjust VR1 of IC503 to become  $41 \pm 1 \mu\text{sec}$  as follows.



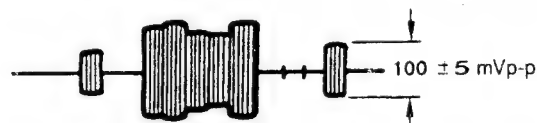
5. V. DELAY Adjustment (VR2)

- (1) Connect an oscilloscope to pin ⑥ of IC503.
- (2) Adjust VR2 of IC503 to become  $7.7 \pm 0.3 \text{ msec}$  as follows.



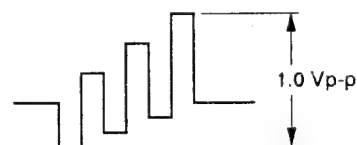
**ACC ADJUSTMENT (RV002)**

1. Receive a color-bar signal (EIA color-bar).
2. Connect an oscilloscope to pin ② of IC311.
3. Adjust RV002 so that the burst signal level becomes  $100 \pm 5 \text{ mVp-p}$ .



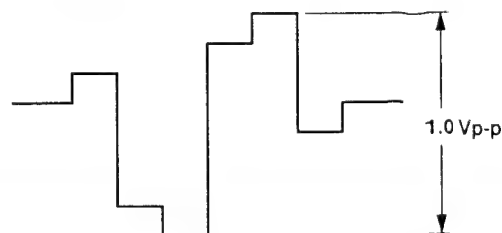
**B-Y DEM LEVEL ADJUSTMENT (RV003)**

1. Receive a color-bar signal (75% chroma color-bar).
2. Connect an oscilloscope to TP42 (B-Y).
3. Adjust RV003 so that the B-Y waveform becomes  $1.0 \text{ Vp-p}$ .



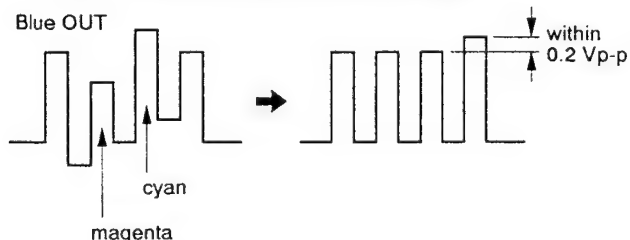
**R-Y DEM LEVEL ADJUSTMENT (RV004)**

1. Receive a color-bar signal (75% chroma color-bar).
2. Connect an oscilloscope to TP41 (R-Y).
3. Adjust RV004 so that the R-Y waveform becomes  $1.0 \text{ Vp-p}$ .

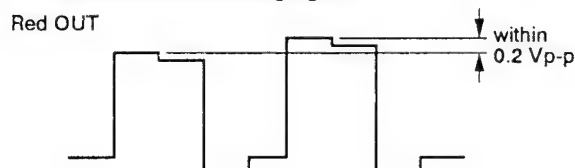


# MATRIX ADJUSTMENT (RV006, RV007)

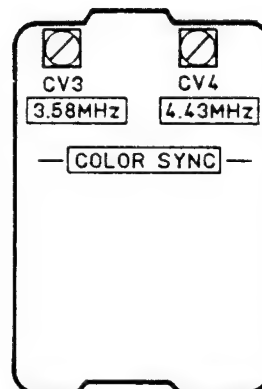
1. Receive a color-bar signal.  
 (white peak: 75%  
 black level: 0%  
 chroma max.: 75%  
 chroma min.: 0%)
2. CONTRAST ..... 70%
3. Connect an oscilloscope to pin ⑤ (B OUT) of A-15.
4. Adjust RV006 (B-Y) so that the BLUE OUT wave-form becomes flat as following figure.



5. When there is difference between cyan portion and magenta portion, adjust with RV006 while tracking with PHASE volume for user control.
6. Connect an oscilloscope to pin ⑧ (R OUT) of A-15.
7. Adjust RV007 (R-Y) so that the RED OUT wave-form becomes flat as following figure.



## 5-2. XA BOARD ADJUSTMENT

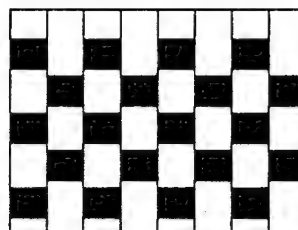


XA BOARD

— COMPONENT SIDE —

### COLOR SYNCHRONIZATION (CW) ADJUSTMENT (CV3, CV4)

1. Short-circuit pins ⑨ and ⑩ of IC301 on A board.
2. Connect pin ③ of IC311 on A board to +12 V line via 4.7 kΩ resistor.
3. Short-circuit base and emitter of Q416 on A board.
4. 3.58 MHz Adjustment (CV3)
  - (1) Receive a color-bar signal (EIA color-bar).
  - (2) Adjust CV3 the color synchronization.



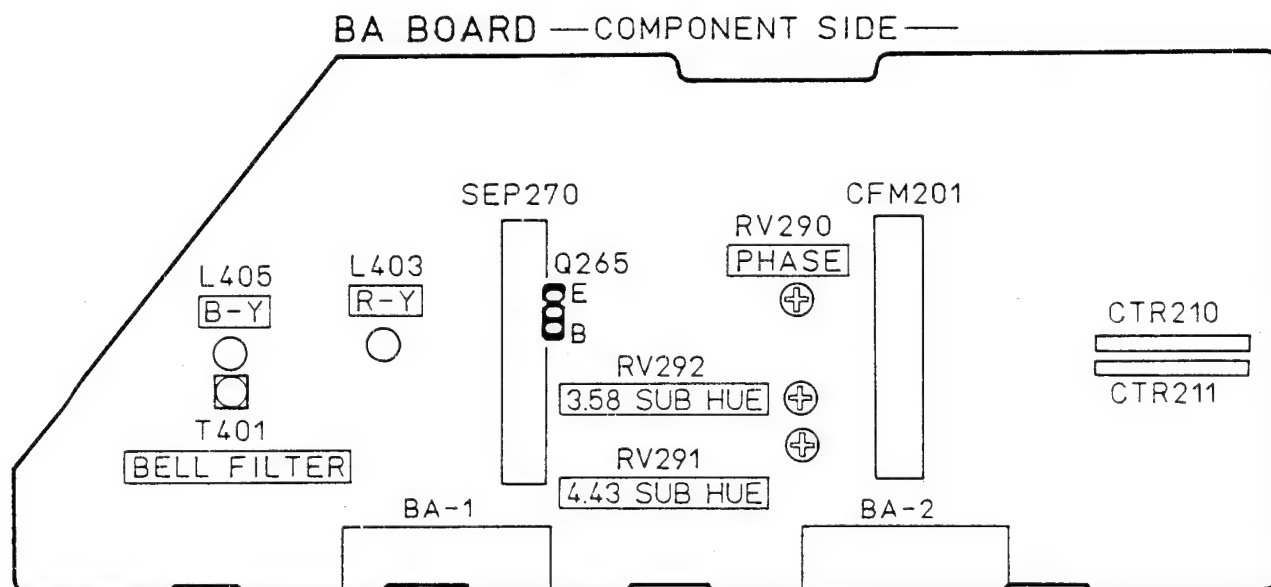
Adjust so that color stripes disappear and the hue change is stabilized extremery.

5. 4.43 MHz Adjustment (CV4)
  - (1) Receive a color-bar signal (EBU color-bar).
  - (2) Adjust CV4 the color synchronization.
6. Remove the short-circuit positions pins ⑨ and ⑩ of IC301 and base and emitter of Q416.

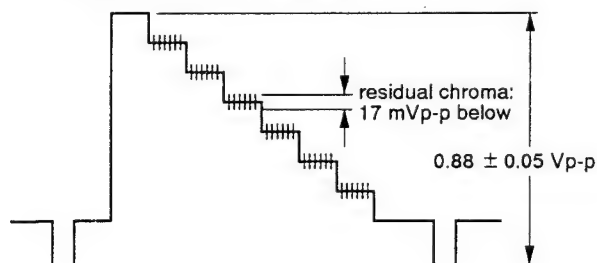
**CAUTION:** This adjustment (XA board adjustment) should be made earlier than all adjustments of color.



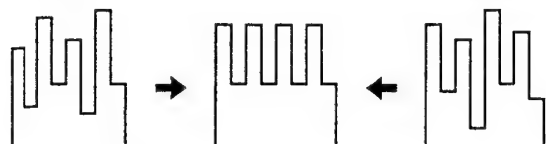
## 5-3. BA BOARD ADJUSTMENTS

**NTSC 3.58 MHz ADJUSTMENT (RV292)**

1. Receive NTSC 3.58 color-bar signal.
2. Connect to pin ⑪ (Y-OUT) of BA-2 connector.
3. Confirm the Y-OUT is  $0.88 \pm 0.05$  Vp-p.
4. Confirm the residual chroma is 17 mVp-p below. When it is above 17 mVp-p, adjust with RV1 and T1 inside CFM201 while tracking.



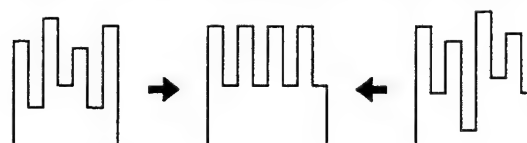
5. Connect an oscilloscope to pin ⑤ (B-OUT) of A-15 connector.
6. Adjust RV292 (3.58 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



Note: CONTRAST.....normal condition  
HUE.....Normal condition

**NTSC 4.43 MHz ADJUSTMENT (RV291)**

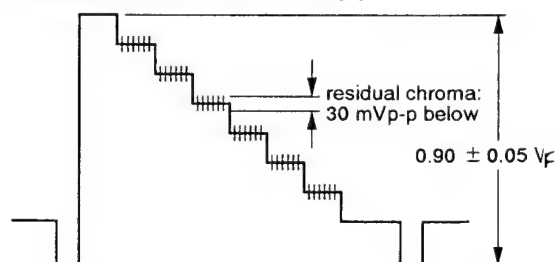
1. Receive NTSC 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 0.1 V DC.
3. Connect an oscilloscope to pin ⑤ of A-15 connector.
4. Adjust RV291 (4.43 SUB HUE) so that the BLUE OUT waveform level becomes flat as following figure.



Note: CONTRAST.....Normal condition  
HUE.....Normal condition

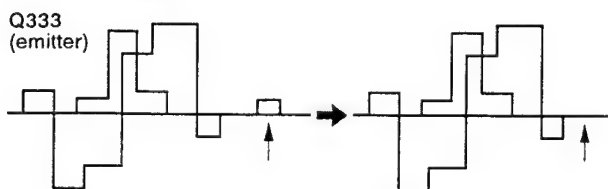
**PAL ADJUSTMENTS (RV290)**

1. Receive PAL 4.43 color-bar signal.
2. Confirm the voltage on pin ④ of CTR210 is above 5.0 V DC, and on pin ⑤ of CTR210 is below 1.0 V DC.
3. Connect an oscilloscope to pin ⑪ of BA-2 connector.
4. Confirm the Y-OUT is  $0.90 \pm 0.05$  Vp-p and the residual chroma is below 30 mVp-p.

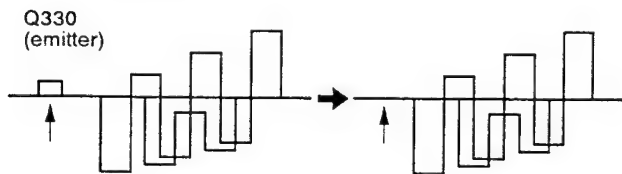


### 5. ANTI-PAL Adjustment (RV290)

- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q333 on A board, and adjust RV290 (PHASE) so that R-Y anti-PAL portion becomes flat as following figure.



- (3) Connect an oscilloscope to emitter of Q330 on A board, and adjust RV2 inside SEP270 so that B-Y anti-PAL portion becomes flat as following figure.

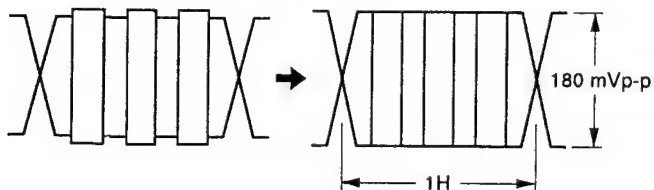


- (4) Adjust L405 (B-Y) so that the non-colored portion level becomes flat.



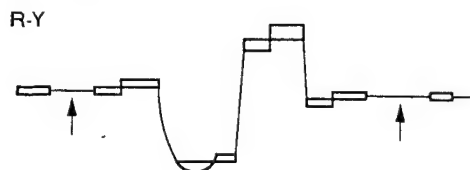
### SECAM ADJUSTMENTS (T401, L403, L405)

1. Receive SECAM color-bar.
2. Bell Filter Adjustment (T401)
  - (1) Connect an oscilloscope to emitter of Q265.
  - (2) Adjust T401 (Bell Filter) so that the chroma waveform becomes smooth.



### 3. Color Balance Adjustment (L403)

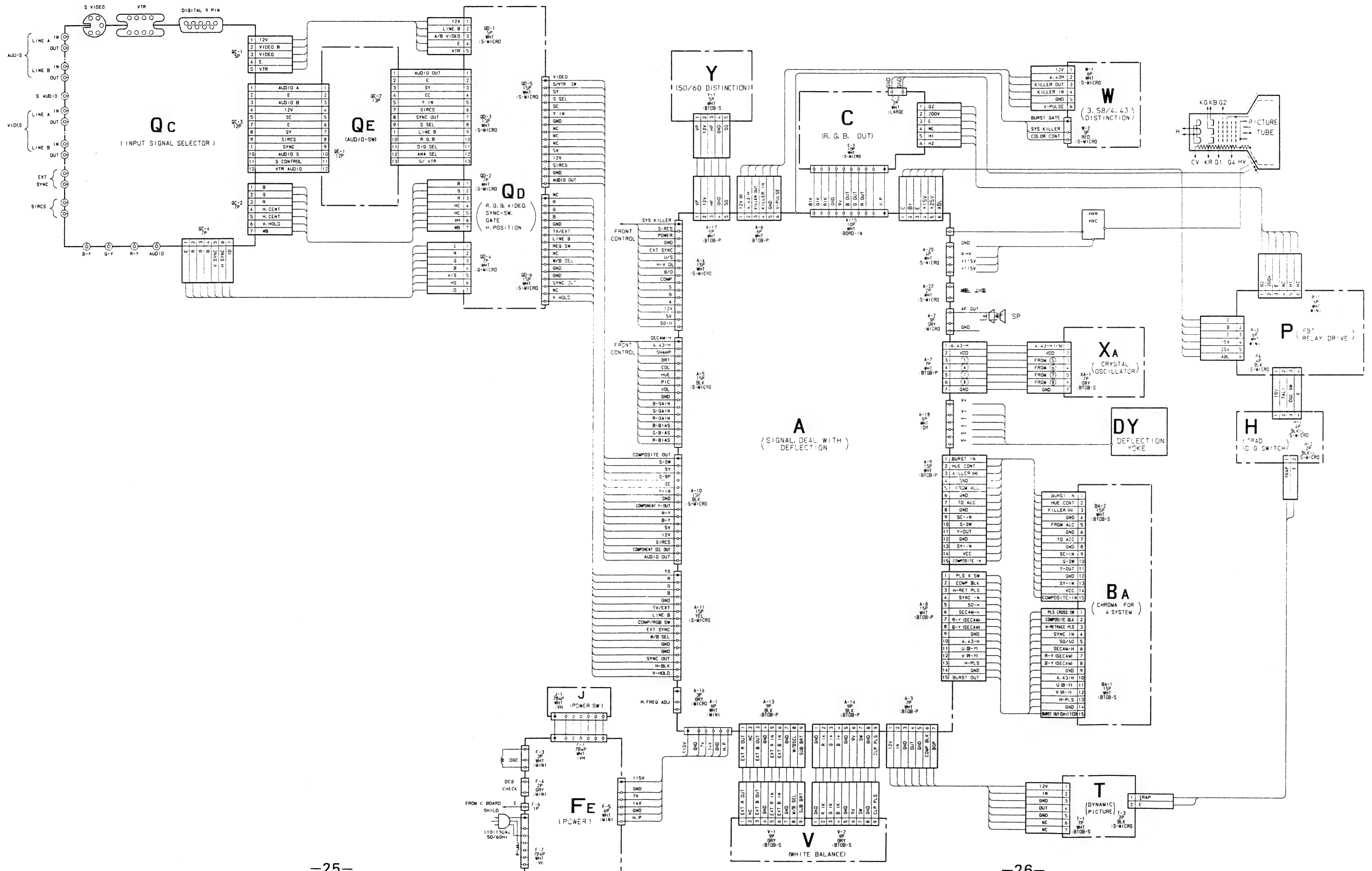
- (1) Connect an oscilloscope to pin ⑦ (R-Y) of BA-1 connector.
- (2) Adjust L403 (R-Y) so that the non-colored portion level becomes flat.



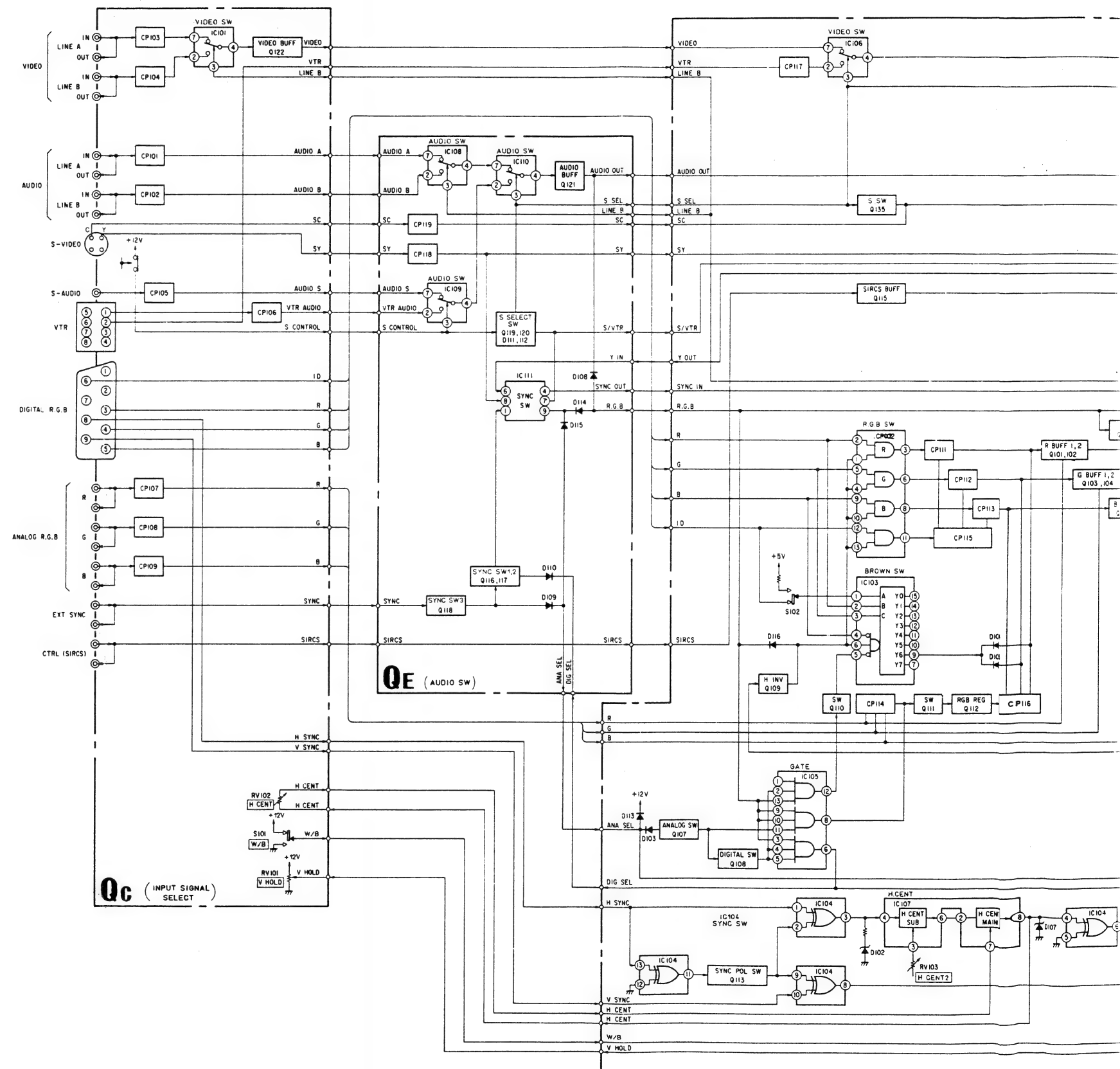
- (3) Connect an oscilloscope to pin ⑧ (B-Y) of BA-1 connector.

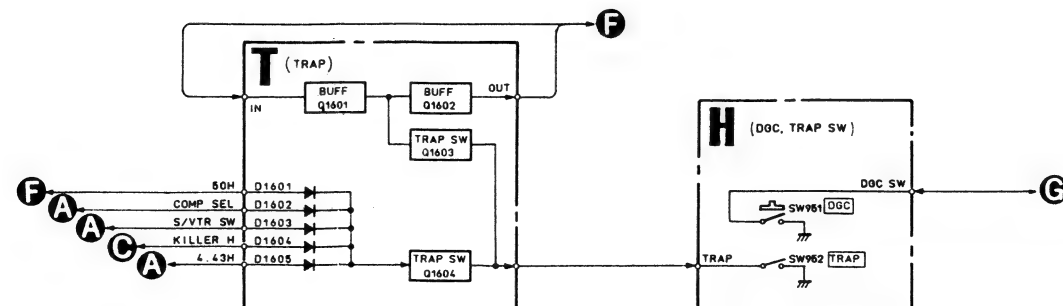
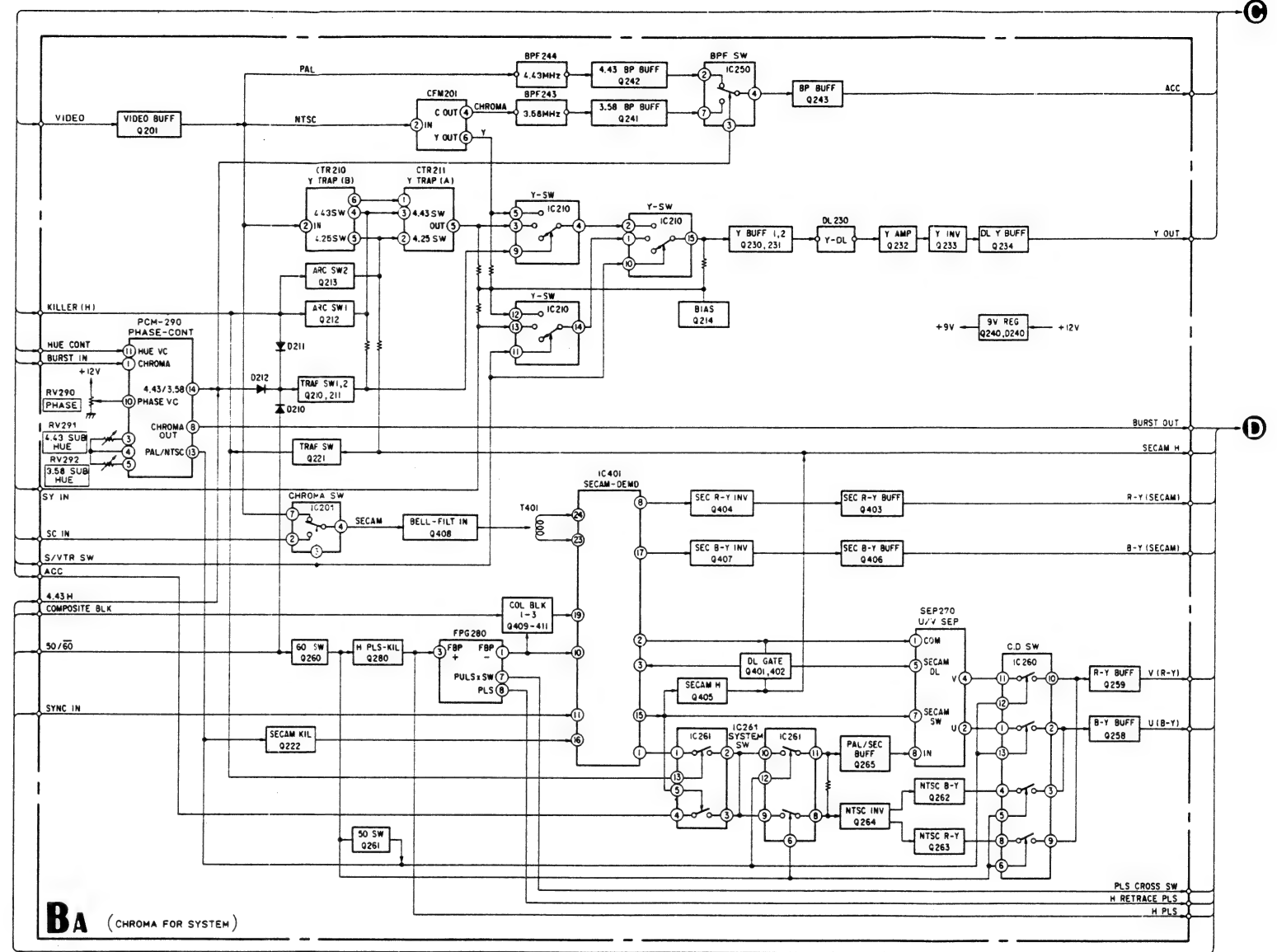
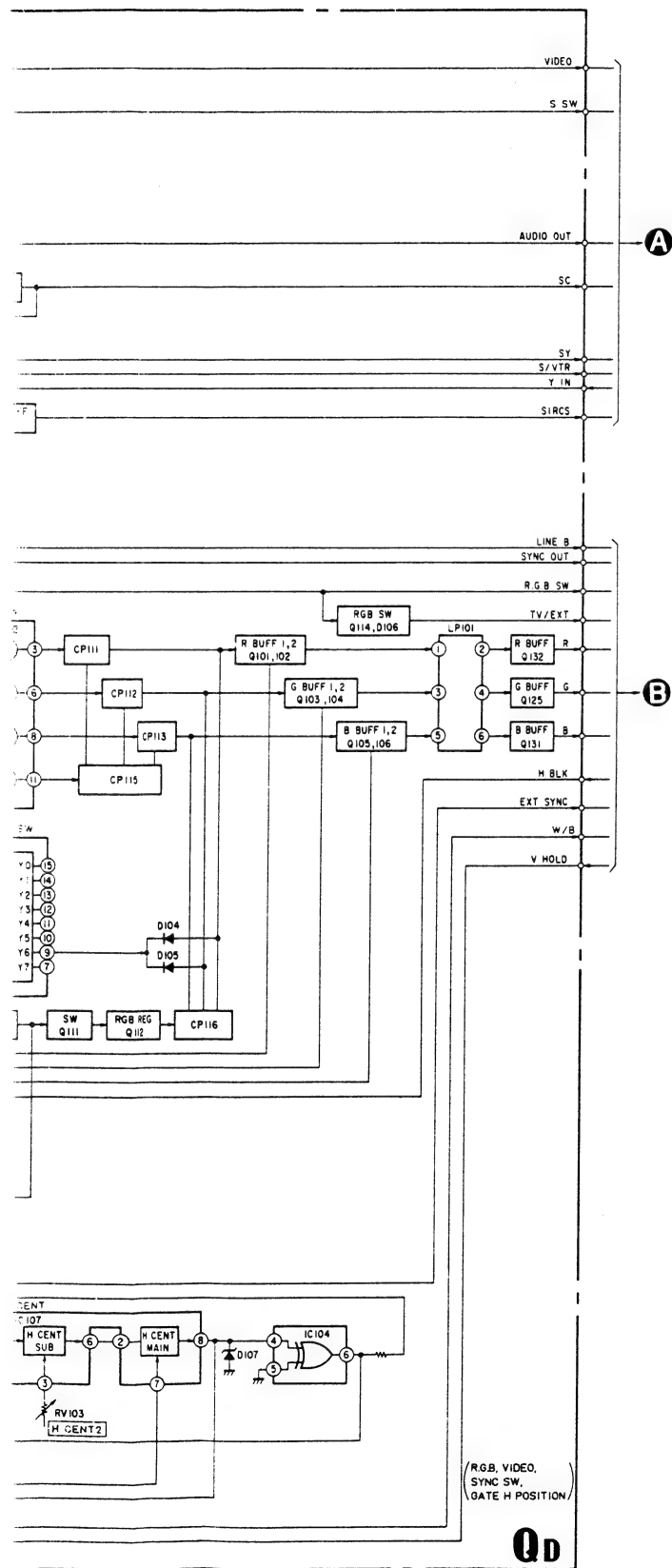
## SECTION 6

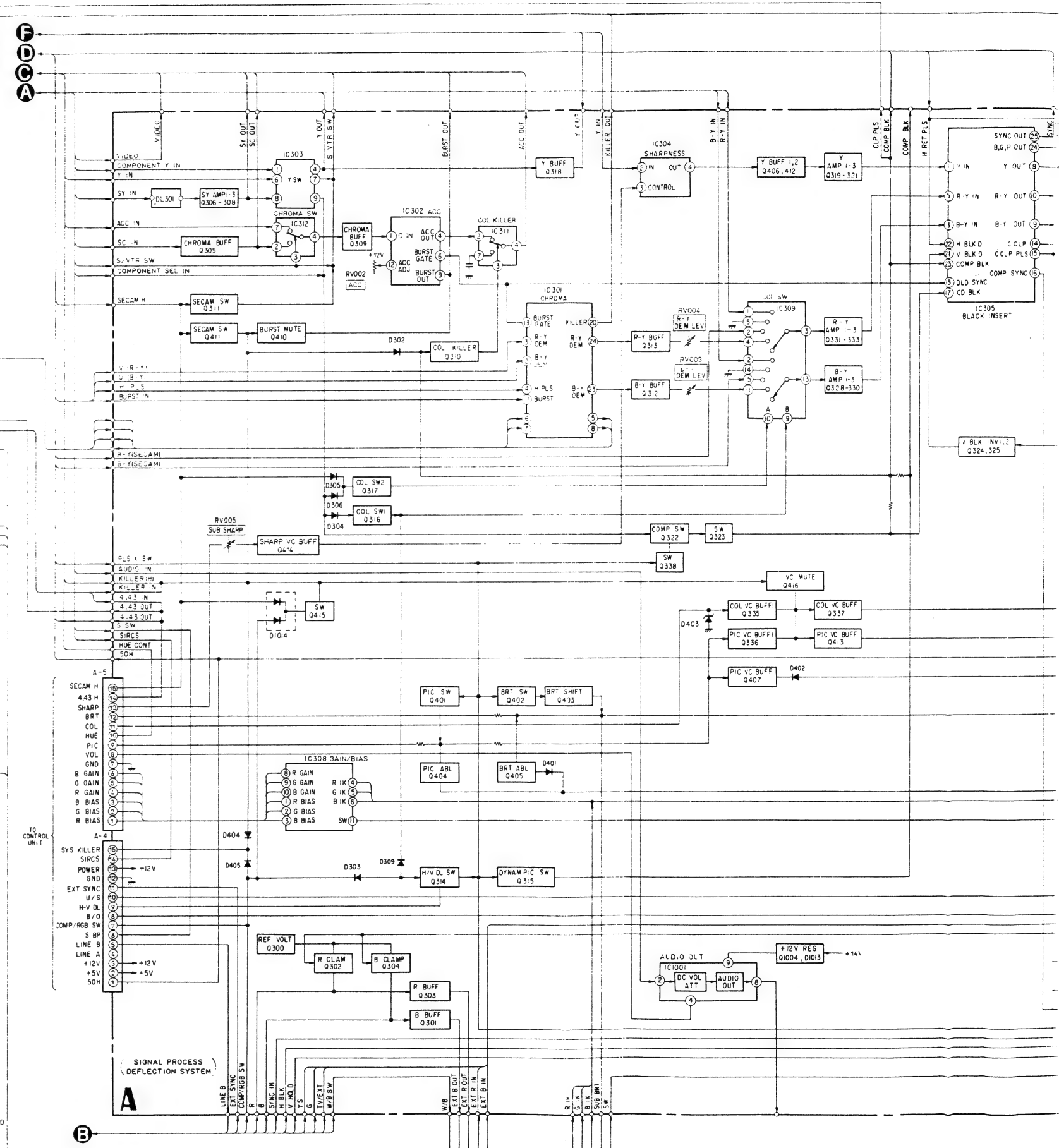
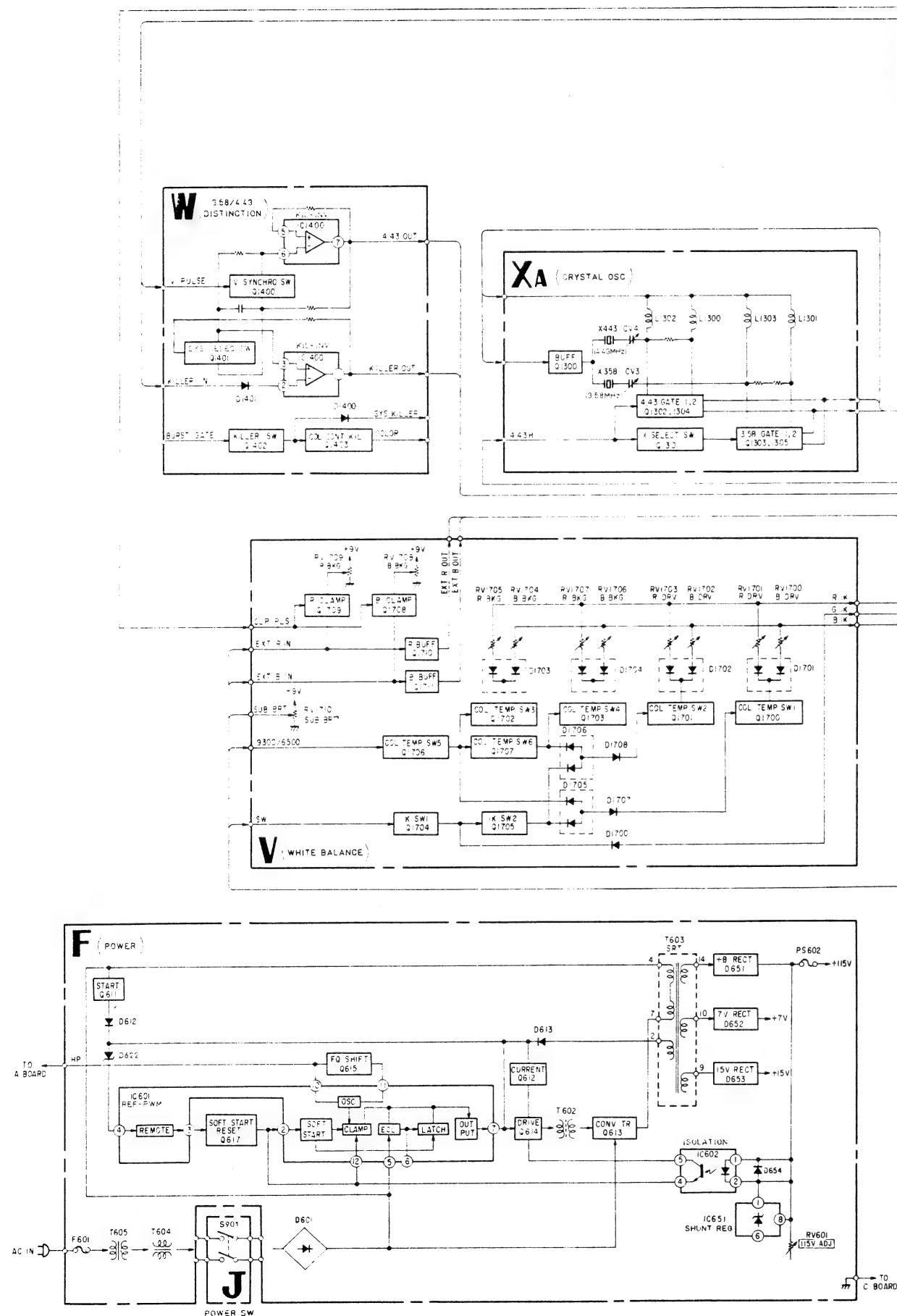
### 6-1. FRAME SCHEMATIC DIAGRAM

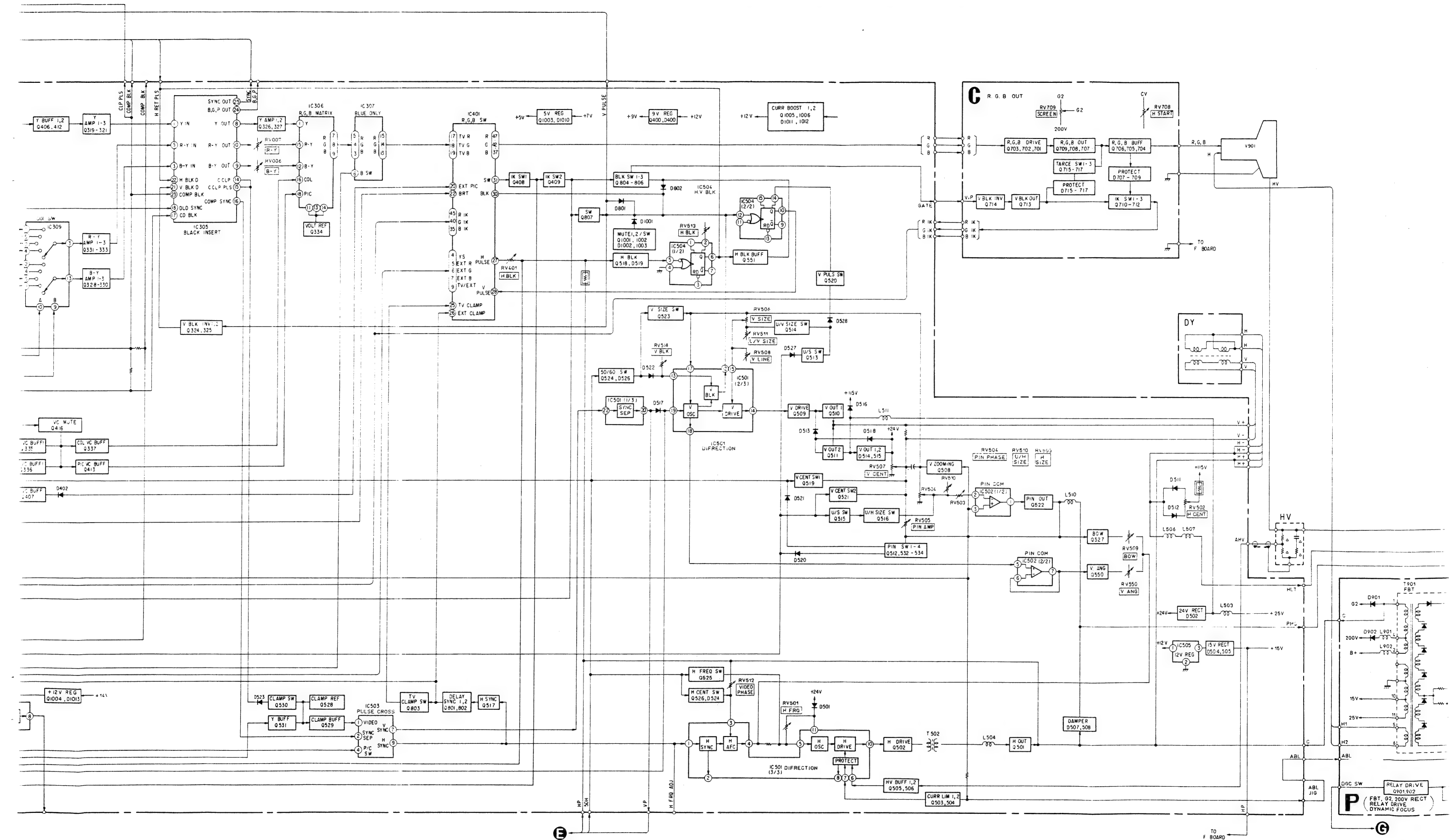


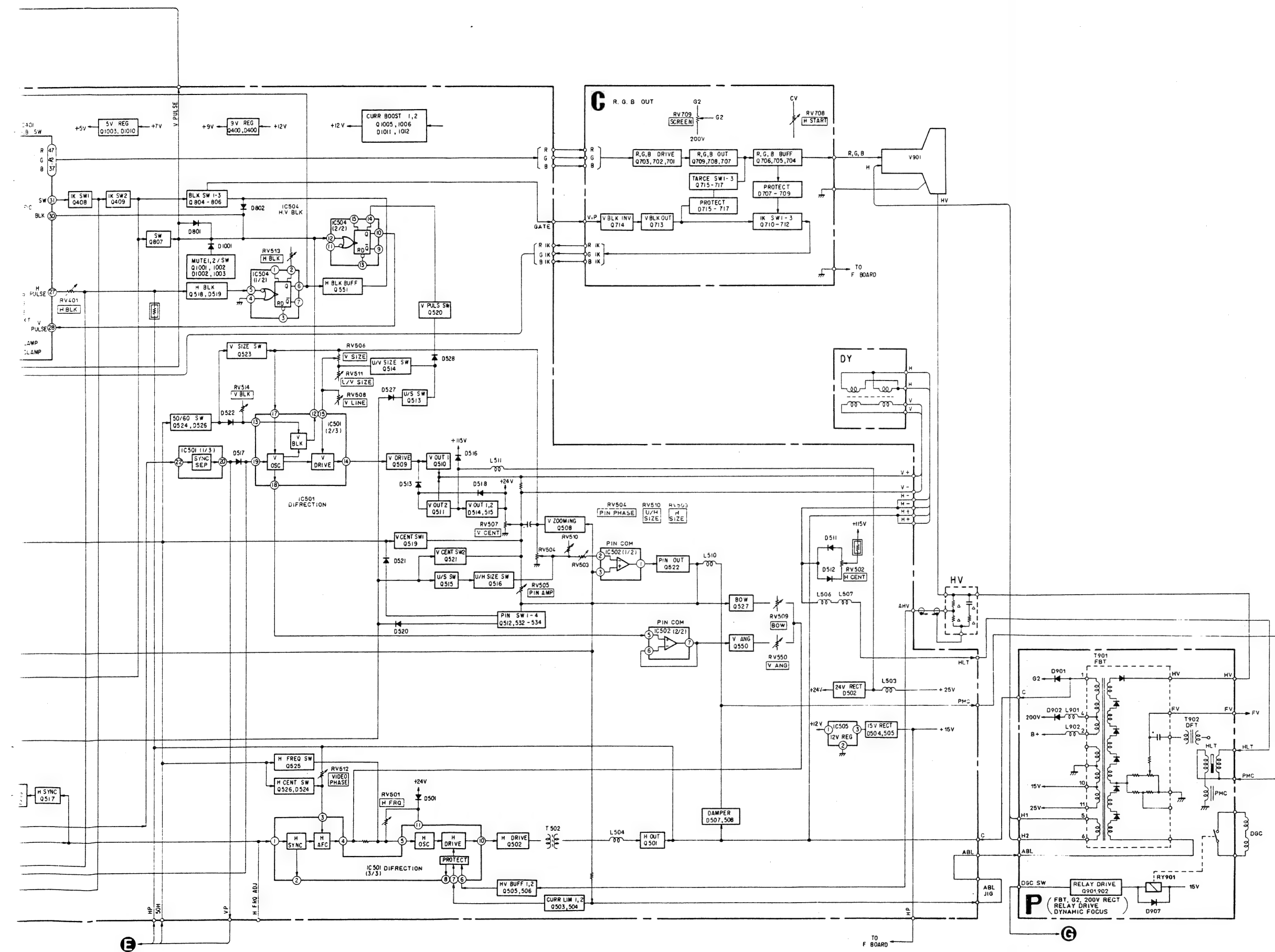
6-2. BLOCK DIAGRAMS







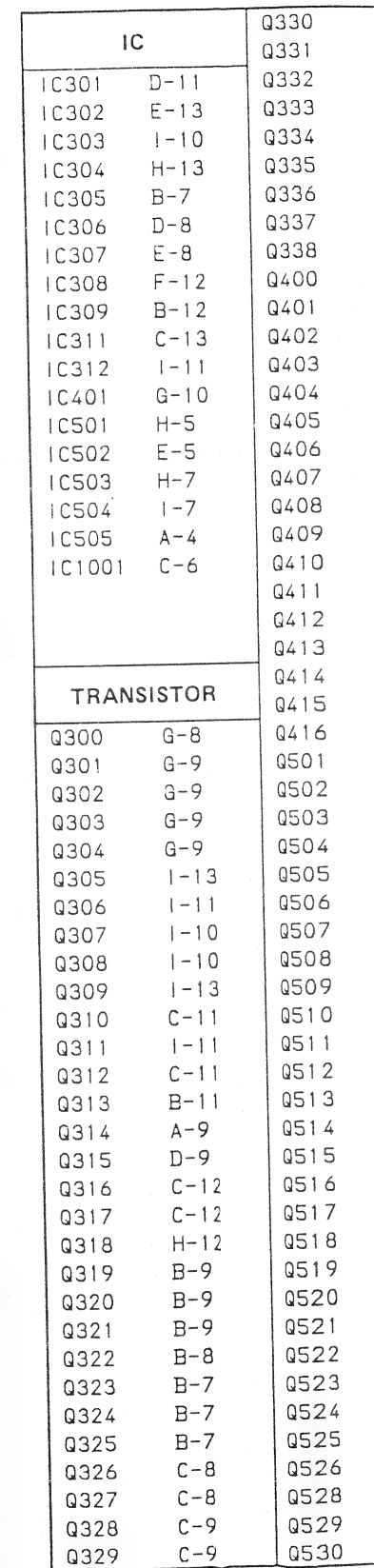




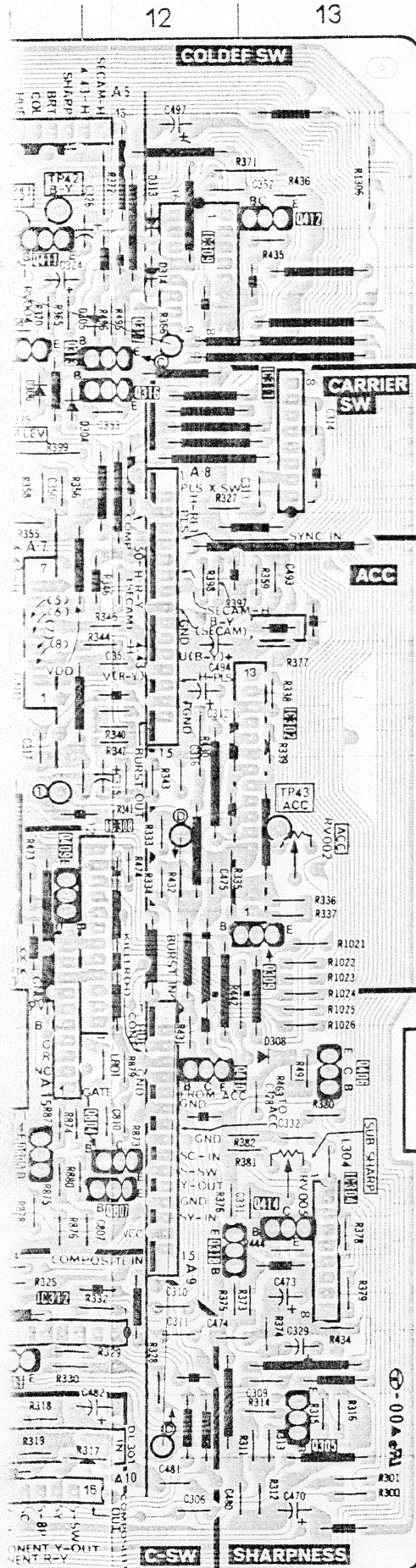


PVM-2043MD      PVM-2043MD

[SIGNAL PROCESS, DEFLECTION SYSTEM]





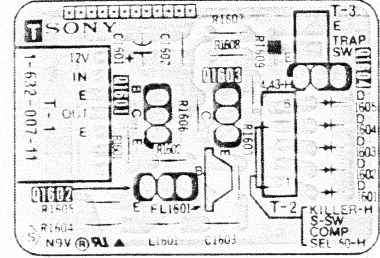


IC	Q330		Q531		D516		
IC301	D-11	Q331	C-9	Q532	I-5	D517	H-6
IC302	E-13	Q332	C-9	Q533	I-5	D518	E-6
IC303	I-10	Q333	C-9	Q534	H-2	D519	J-8
IC304	H-13	Q334	C-8	Q550	H-1	D520	H-2
IC305	B-7	Q335	D-9	Q551	I-7	D521	I-5
IC306	D-8	Q336	D-9	Q801	I-9	D522	F-6
IC307	E-8	Q337	D-8	Q802	I-9	D523	G-8
IC308	F-12	Q338	B-8	Q803	H-9	D524	J-6
IC309	B-12	Q400	F-9	Q804	H-12	D526	G-6
IC311	C-13	Q401	E-8	Q805	H-11	D527	I-1
IC312	I-11	Q402	E-8	Q806	H-10	D528	I-6
IC401	G-10	Q403	E-9	Q807	H-12	D529	I-8
IC501	H-5	Q404	E-9	Q1001	E-10	D530	E-1
IC502	E-5	Q405	E-9	Q1002	E-10	D531	E-1
IC503	H-7	Q406	G-13	Q1003	A-6	D801	H-10
IC504	I-7	Q407	E-9	Q1004	B-5	D802	H-10
IC505	A-4	Q408	F-11	Q1005	A-4	D1001	E-10
IC1001	C-6	Q409	F-11	Q1006	B-4	D1002	E-10
		Q410	G-12			D1003	E-10
		Q411	B-11			D1010	A-6
		Q412	B-13			D1011	B-4
		Q413	D-8			D1012	A-5
		Q414	H-13			D1013	B-5
		Q415	B-10			D1014	B-11
		Q416	B-10				
		Q501	C-2				
		Q502	E-3				
		Q503	H-2				
		Q504	H-2				
		Q505	H-4				
		Q506	H-4				
		Q507	D-4				
		Q508	F-6				
		Q509	F-7				
		Q510	E-6				
		Q511	D-6				
		Q512	I-2				
		Q513	I-1				
		Q514	I-2				
		Q515	I-1				
		Q516	J-1				
		Q517	H-7				
		Q518	J-7				
		Q519	G-7				
		Q520	I-7				
		Q521	F-7				
		Q522	I-3				
		Q523	F-6				
		Q524	F-6				
		Q525	I-6				
		Q526	I-5				
		Q528	G-7				
		Q529	H-8				
		Q530	G-8				
TRANSISTOR	Q300		Q301		Q302		
Q300	G-8	Q301	G-9	Q302	G-9	Q303	G-9
Q304	G-9	Q305	G-9	Q306	G-9	Q307	G-9
Q308	I-13	Q309	I-11	Q310	I-10	Q311	I-10
Q312	I-10	Q313	I-13	Q314	I-13	Q315	I-13
Q316	C-11	Q317	C-11	Q318	C-11	Q319	C-11
Q320	C-11	Q321	C-11	Q322	C-11	Q323	C-11
Q324	C-11	Q325	C-11	Q326	C-11	Q327	C-11
Q328	C-11	Q329	C-11				

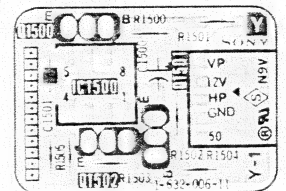
DIODE		D302		D303		D304	
D302	C-11	D303	A-9	D304	C-12	D305	B-11
D306	C-11	D307	C-7	D308	G-13	D309	A-9
D311	A-9	D312	A-9	D313	A-9	D314	A-9
D400	F-8	D401	D-9	D402	E-9	D403	A-10
D404	A-10	D405	A-10	D501	G-4	D502	G-2
D503	F-3	D504	F-1	D505	E-1	D506	E-3
D507	C-3	D508	B-1	D509	G-3	D510	I-4
D511	D-4	D512	C-4	D513	E-6	D514	D-5
D515	D-4						

VARIABLE RESISTOR		RV002		RV003		RV004	
RV002	E-13	RV003	B-11	RV004	B-11	RV005	H-13
RV006	C-7	RV007	C-7	RV501	G-5	RV502	C-5
RV503	I-1	RV504	J-2	RV505	I-2	RV506	I-2
RV507	I-3	RV508	I-3	RV509	I-2	RV510	J-1
RV511	J-2	RV512	J-3	RV513	J-3	RV514	G-6
RV550	J-2						

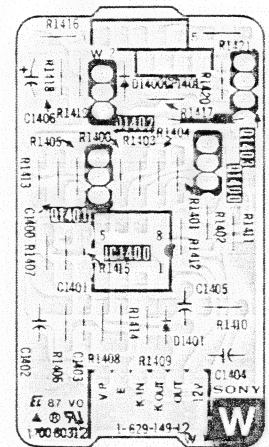
- T Board -



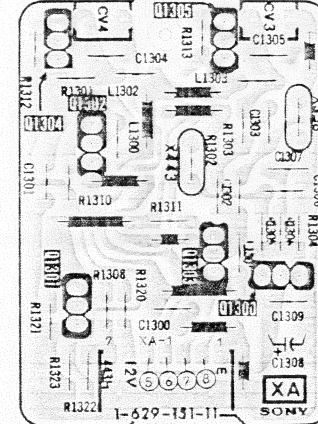
- Y Board -



- W Board -



- XA Board -



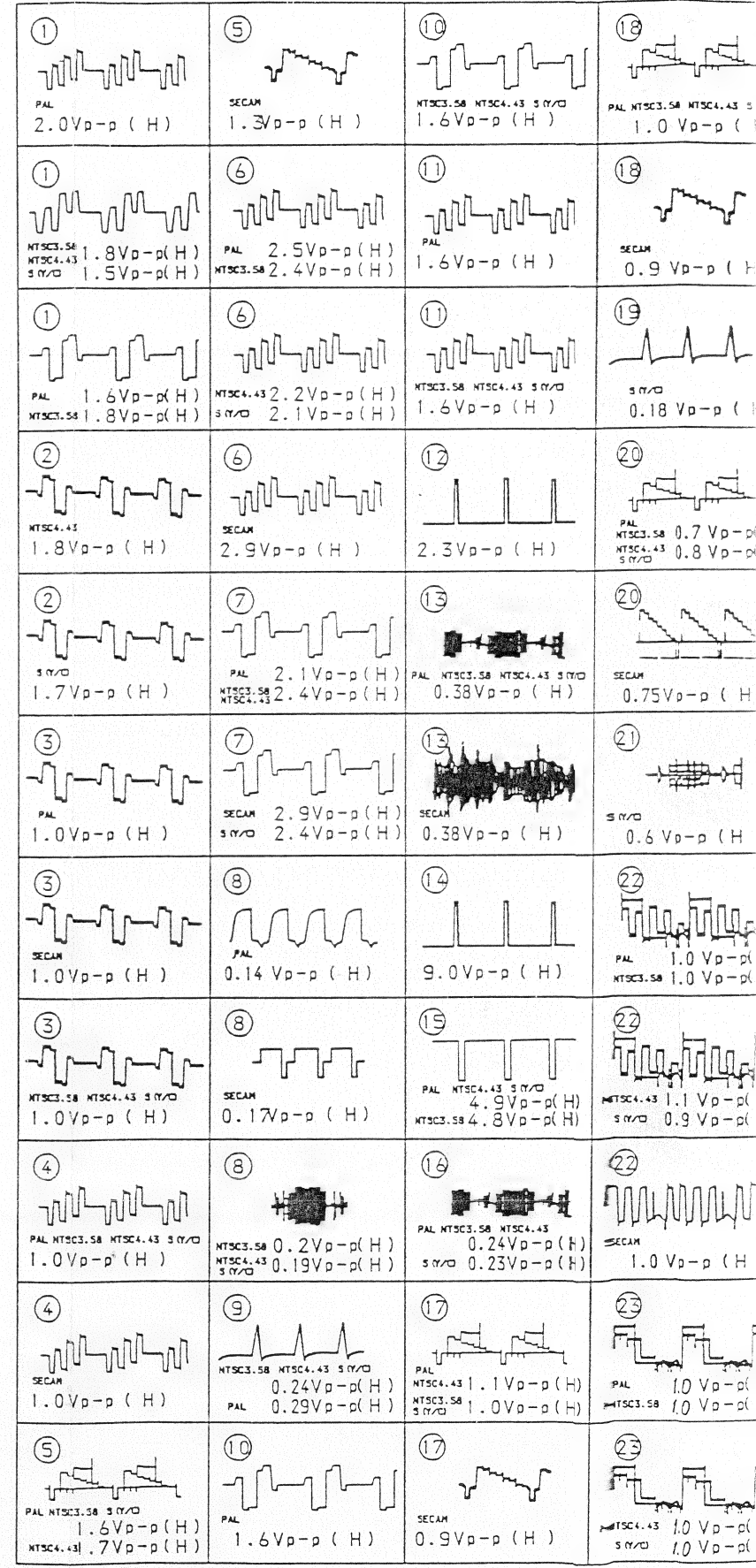
T [TRAP]

W [3.58/4.43 DISTINCTION]

XA [CRYSTAL OSC]

Y [50/60 DISTINCTION]

A BOARD WAVEFORMS





**T** [TRAP]

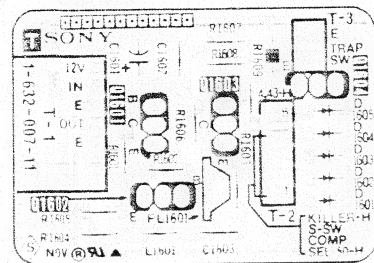
**W** 3.58/4.43  
DISTINCTION

**XA** CRYSTAL  
OSC

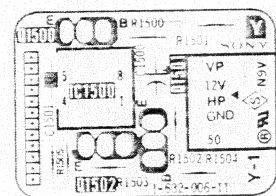
**Y** 50/60  
DISTINCTION

A BOARD WAVEFORMS

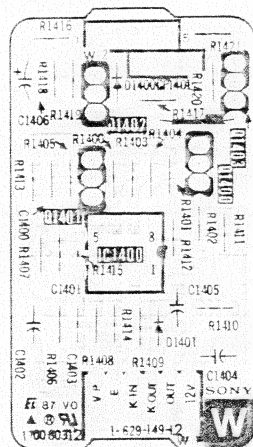
- T Board -



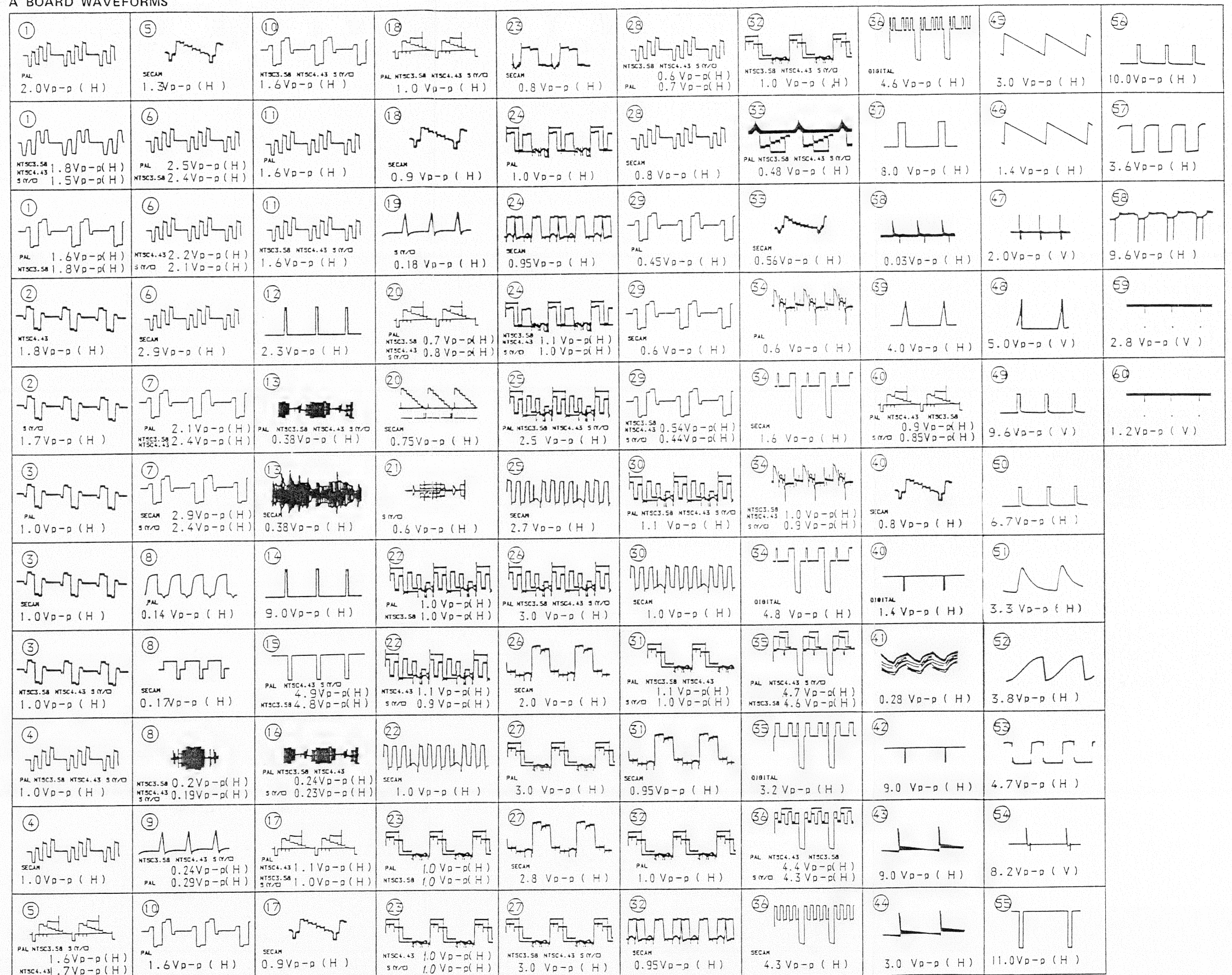
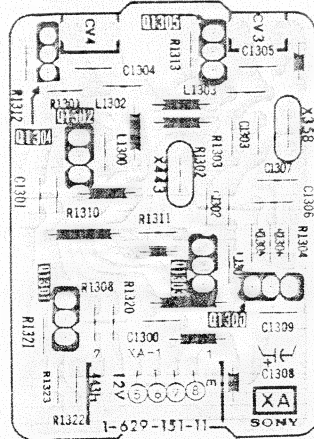
- Y Board -



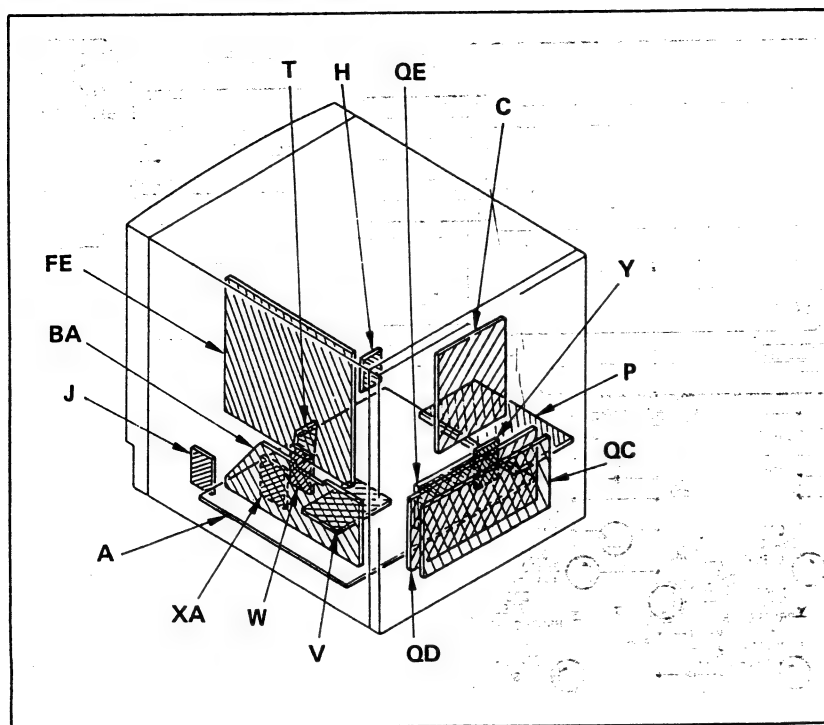
- W Board -



- XA Board -



## 6-4. CIRCUIT BOARDS LOCATION



## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\mu\text{F}$ :  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm  
Rating electrical power  $\frac{1}{4}$  W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R500 and R690 adjust on Page 17 and 18.)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC601, IC602, IC651, D654, D655, C658, C659, R634, R652, R653, R654, R655, R656, R657, R665, R671, R690, RV601	R690 (B+ MAX)
IC501, Q503, Q504, Q505, Q506, D509, D510, C505, C520, C524, C525, C528, C527, C528, C529, C530, C531, R500, R506, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R528, R804, NL501, HVR	R500 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Readings are taken with a NTSC 3.58 color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B - bus.
- : B - bus.
- : signal path.
- No mark : with NTSC 3.58 color-bar signal received or common voltage.
- For the respective voltage ratings in PAL, SECAM, NTSC 4.43, S-VIDEO, and DIGITAL modes, see the table.

## Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

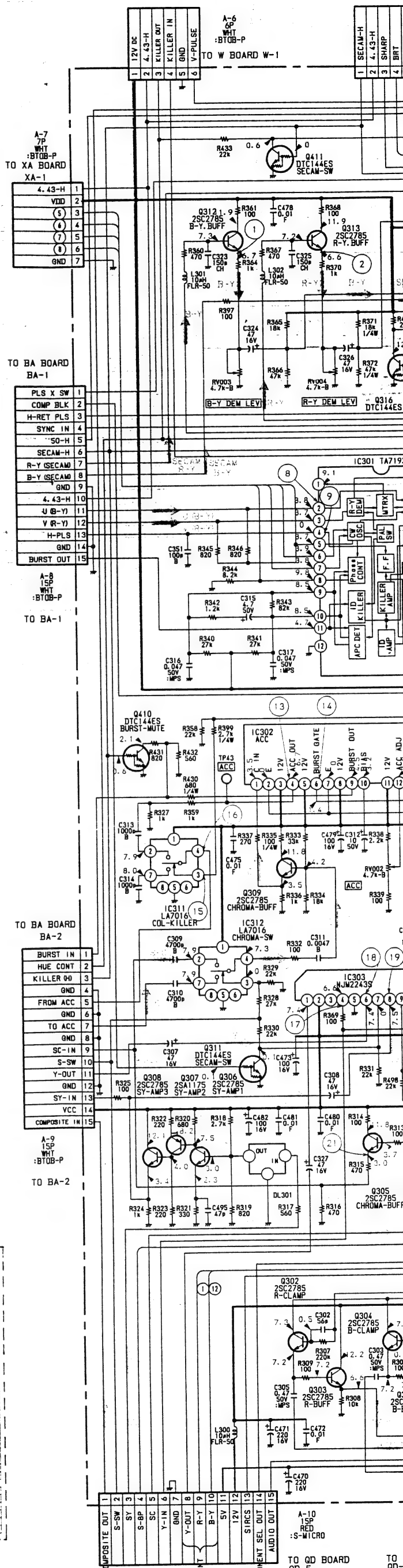
## 6-5. SCHEMATIC DIAGRAMS

## A BOARD

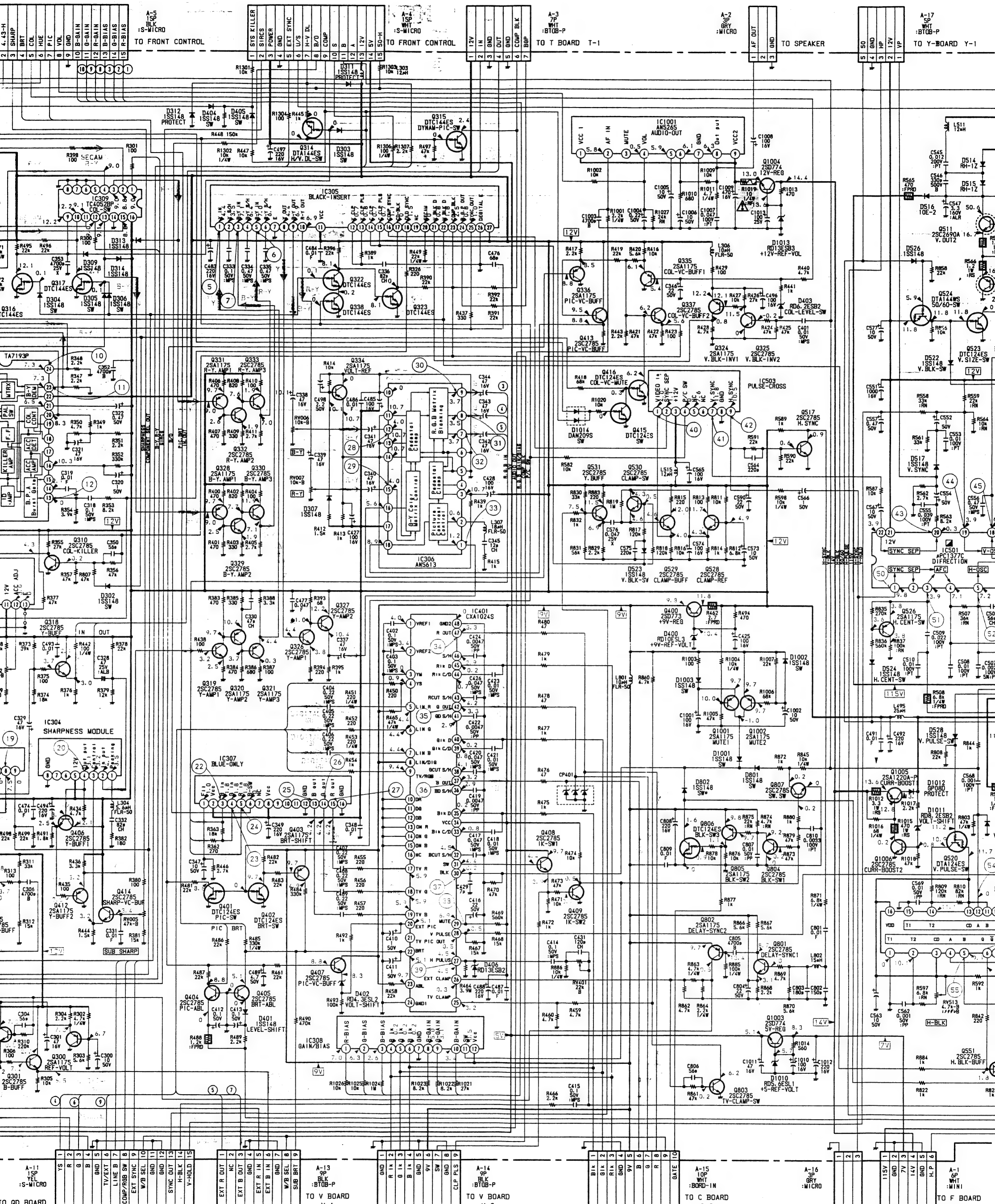
Q. NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q411	0.1	0.1	0.1	0.1	0.1	0.1
Q316	0.1	0.1	0.1	0.1	0.1	0.1
Q317	0.1	0.1	0.1	0.1	0.1	0.1
Q410	0.1	0.1	0.1	0.1	0.1	0.1
Q510	0.1	0.1	0.1	0.1	0.1	0.1
Q404	0.1	0.1	0.1	0.1	0.1	0.1
Q405	0.1	0.1	0.1	0.1	0.1	0.1
Q407	0.1	0.1	0.1	0.1	0.1	0.1
Q401	0.1	0.1	0.1	0.1	0.1	0.1
Q328	0.1	0.1	0.1	0.1	0.1	0.1
Q329	0.1	0.1	0.1	0.1	0.1	0.1
Q330	0.1	0.1	0.1	0.1	0.1	0.1
Q331	0.1	0.1	0.1	0.1	0.1	0.1
Q332	0.1	0.1	0.1	0.1	0.1	0.1
Q333	0.1	0.1	0.1	0.1	0.1	0.1
Q322	0.1	0.1	0.1	0.1	0.1	0.1
Q323	0.1	0.1	0.1	0.1	0.1	0.1
Q336	0.1	0.1	0.1	0.1	0.1	0.1

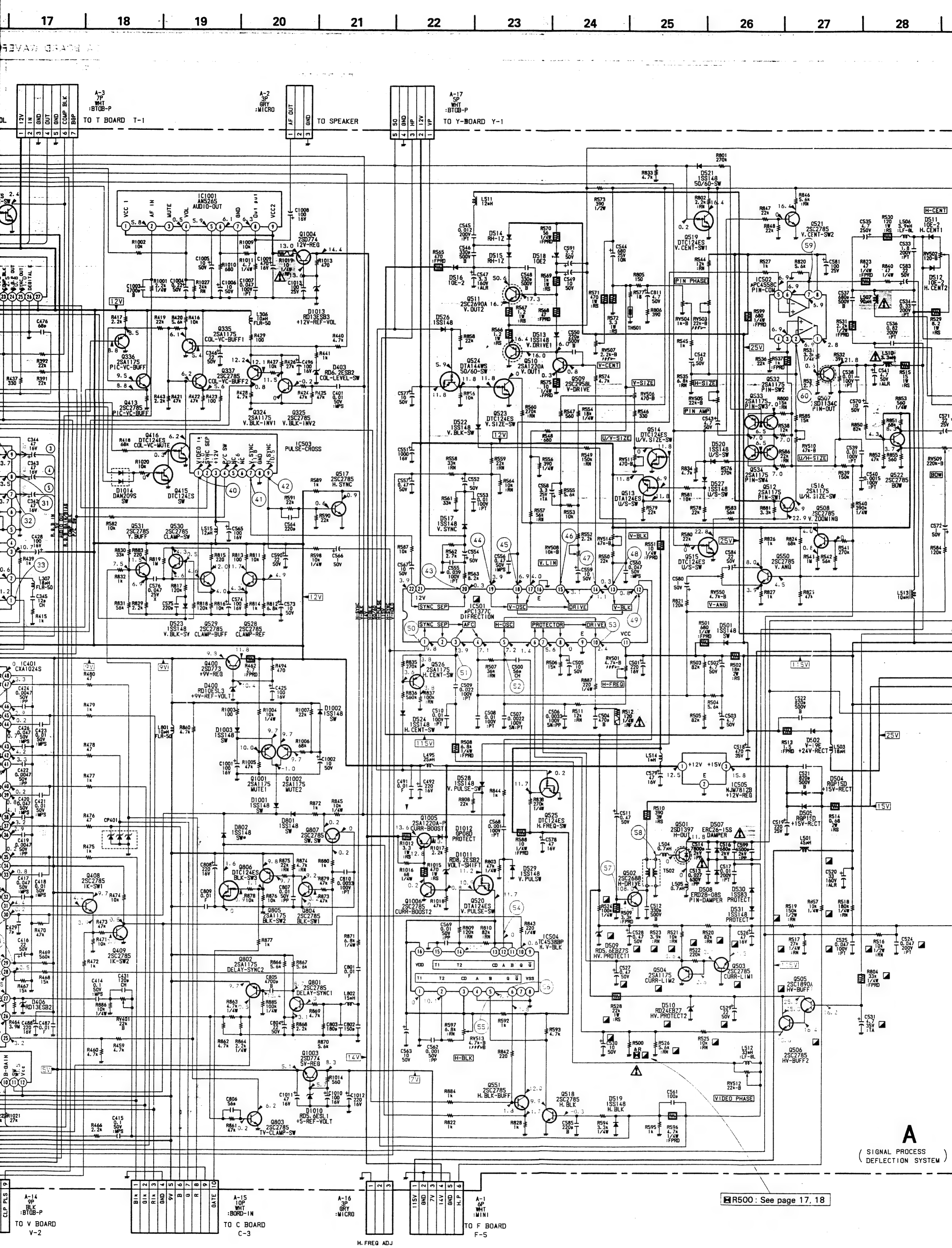
Q. NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q413	0.1	0.1	0.1	0.1	0.1	0.1
Q335	0.1	0.1	0.1	0.1	0.1	0.1
Q337	0.1	0.1	0.1	0.1	0.1	0.1
Q338	0.1	0.1	0.1	0.1	0.1	0.1
Q339	0.1	0.1	0.1	0.1	0.1	0.1
Q340	0.1	0.1	0.1	0.1	0.1	0.1
Q341	0.1	0.1	0.1	0.1	0.1	0.1
Q342	0.1	0.1	0.1	0.1	0.1	0.1
Q343	0.1	0.1	0.1	0.1	0.1	0.1
Q344	0.1	0.1	0.1	0.1	0.1	0.1
Q345	0.1	0.1	0.1	0.1	0.1	0.1
Q346	0.1	0.1	0.1	0.1	0.1	0.1
Q347	0.1	0.1	0.1	0.1	0.1	0.1
Q348	0.1	0.1	0.1	0.1	0.1	0.1
Q349	0.1	0.1	0.1	0.1	0.1	0.1
Q350	0.1	0.1	0.1	0.1	0.1	0.1
Q351	0.1	0.1	0.1	0.1	0.1	0.1
Q352	0.1	0.1	0.1	0.1	0.1	0.1
Q353	0.1	0.1	0.1	0.1	0.1	0.1
Q354	0.1	0.1	0.1	0.1	0.1	0.1
Q355	0.1	0.1	0.1	0.1	0.1	0.1
Q356	0.1	0.1	0.1	0.1	0.1	0.1

Q. NO.	PIN NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q308	(1)	0.1	0.1	0.1	0.1	0.1	0.1
	(2)	0.1	0.1	0.1	0.1	0.1	0.1
	(3)	0.1	0.1	0.1	0.1	0.1	0.1
	(4)	0.1	0.1	0.1	0.1	0.1	0.1
	(5)	0.1	0.1	0.1	0.1	0.1	0.1
	(6)	0.1	0.1	0.1	0.1	0.1	0.1
	(7)	0.1	0.1	0.1	0.1	0.1	0.1
	(8)	0.1	0.1	0.1	0.1	0.1	0.1
	(9)	0.1	0.1	0.1	0.1	0.1	0.1
	(10)	0.1	0.1	0.1	0.1	0.1	0.1
	(11)	0.1	0.1	0.1	0.1	0.1	0.1
	(12)	0.1	0.1	0.1	0.1	0.1	0.1
	(13)	0.1	0.1	0.1	0.1	0.1	0.1
	(14)	0.1	0.1	0.1	0.1	0.1	0.1
	(15)	0.1	0.1	0.1	0.1	0.1	0.1
	(16)	0.1	0.1	0.1	0.1	0.1	0.1
	(17)	0.1	0.1	0.1	0.1	0.1	0.1
	(18)	0.1	0.1	0.1	0.1	0.1	0.1
	(19)	0.1	0.1	0.1	0.1	0.1	0.1
	(20)	0.1	0.1	0.1	0.1	0.1	0.1
	(21)	0.1	0.1	0.1	0.1	0.1	0.1
	(22)	0.1	0.1	0.1	0.1	0.1	0.1
	(23)	0.1	0.1	0.1	0.1	0.1	0.1
	(24)	0.1	0.1	0.1	0.1	0.1	0.1
	(25)	0.1	0.1	0.1	0.1	0.1	0.1
	(26)	0.1	0.1	0.1	0.1	0.1	0.1
	(27)	0.1	0.1	0.1	0.1	0.1	0.1
	(28)	0.1	0.1	0.1	0.1	0.1	0.1
	(29)	0.1	0.1	0.1	0.1	0.1	0.1
	(30)	0.1	0.1	0.1	0.1	0.1	0.1
	(31)	0.1	0.1	0.1	0.1	0.1	0.1
	(32)	0.1	0.1	0.1	0.1	0.1	0.1
	(33)	0.1	0.1	0.1	0.1	0.1	0.1
	(34)	0.1	0.1	0.1	0.1	0.1	0.1
	(35)	0.1	0.1	0.1	0.1	0.1	0.1
	(36)	0.1	0.1	0.1	0.1	0.1	0.1
	(37)	0.1	0.1	0.1	0.1	0.1	0.1
	(38)	0.1	0.1	0.1	0.1	0.1	0.1
	(39)	0.1	0.1	0.1	0.1	0.1	0.1
	(40)	0.1	0.1	0.1	0.1	0.1	0.1
	(41)	0.1	0.1	0.1	0.1	0.1	0.1
	(42)	0.1	0.1	0.1	0.1	0.1	0.1
	(43)	0.1	0.1	0.1	0.1	0.1	0.1
	(44)	0.1	0.1	0.1	0.1	0.1	0.1
	(45)	0.1	0.1	0.1	0.1	0.1	0.1
	(46)	0.1	0.1	0.1	0.1	0.1	0.1
	(47)	0.1	0.1	0.1	0.1	0.1	0.1
	(48)	0.1	0.1	0.1	0.1	0.1	0.1
	(49)	0.1	0.1	0.1	0.1	0.1	0.1
	(50)	0.1	0.1	0.1	0.1	0.1	0.1
	(51)	0.1	0.1	0.1	0.1	0.1	0.1
	(52)	0.1	0.1	0.1	0.1	0.1	0.1
	(53)	0.1	0.1	0.1	0.1	0.1	0.1
	(54)	0.1	0.1	0.1	0.1	0.1	0.1
	(55)	0.1	0.1	0.1	0.1	0.1	0.1
	(56)	0.1	0.1	0.1	0.1	0.1	0.1
	(57)	0.1	0.1	0.1	0.1	0.1	0.1
	(58)	0.1	0.1	0.1	0.1	0.1	0.1
	(59)	0.1	0.1	0.1	0.1	0.1	0.1
	(60)	0.1	0.1	0.1	0.1	0.1	0.1
	(61)	0.1	0.1	0.1	0.1	0.1	0.1
	(62)	0.1	0.1	0.1	0.1	0.1	0.1
	(63)	0.1	0.1	0.1	0.1	0.1	0.1
	(64)	0.1	0.1	0.1	0.1	0.1	0.1
	(65)	0.1	0.1	0.1	0.1	0.1	0.1
	(66)	0.1	0.1	0.1	0.1	0.1	0.1
	(67)	0.1	0.1	0.1	0.1	0.1	0.1
	(68)	0.1	0.1	0.1	0.1	0.1	0.1
	(69)	0.1	0.1	0.1	0.1	0.1	0.1
	(70)	0.1	0.1	0.1	0.1	0.1	0.1
	(71)	0.1	0.1	0.1	0.1	0.1	0.1
	(72)	0.1	0.1	0.1	0.1	0.1	0.1
	(73)	0.1	0.1	0.1	0.1	0.1	0.1
	(74)	0.1	0.1	0.1	0.1	0.1	0.1
	(75)	0.1	0.1	0.1	0.1	0.1	0.1
	(76)	0.1	0.1	0.1	0.1	0.1	0.1
	(77)	0.1	0.1	0.1	0.1	0.1	0.1
	(78)	0.1	0.1	0.1	0.1	0.1	0.1
	(79)	0.1	0.1	0.1	0.1	0.1	0.1
	(80)	0.1	0.1	0.1	0.1	0.1	0.1
	(81)	0.1	0.1	0.1	0.1	0.1	0.1
	(82)	0.1	0.1	0.1	0.1	0.1	0.1
	(83)	0.1	0.1	0.1	0.1	0.1	0.1
	(84)	0.1	0.1	0.1	0.1	0.1	0.1
	(85)	0.1	0.1	0.1	0.1	0.1	0.1
	(86)	0.1	0.1	0.1	0.1	0.1	0.1
	(87)	0.1	0.1	0.1	0.1	0.1	0.1
	(88)	0.1	0.1	0.1	0.1	0.1	0.1
	(89)	0.1	0.1	0.1	0.1	0.1	0.1
	(90)	0.1	0.1	0.1	0.1	0.1	0.1
	(91)	0.1	0.1	0.1	0.1	0.1	0.1
	(92)	0.1	0.1	0.1	0.1	0.1	0.1
	(93)	0.1	0.1	0.1	0.1	0.1	0.1
	(94)	0.1	0.1	0.1	0.1	0.1	0.1
	(95)	0.1	0.1	0.1	0.1	0.1	0.1
	(96)	0.1	0.1	0.1	0.1	0.1	0.1
	(97)	0.1	0.1	0.1	0.1	0.1	0.1
	(98)	0.1	0.1	0.1	0.1	0.1	0.1
	(99)	0.1	0.1	0.1	0.1	0.1	0.1
	(100)	0.1	0.1	0.1	0.1	0.1	0.1

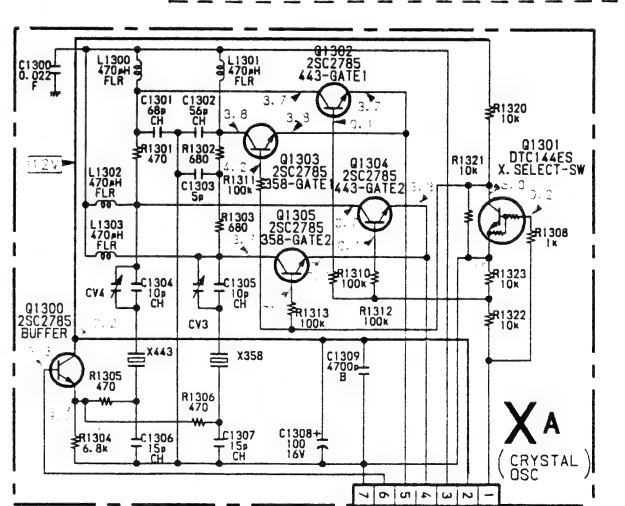




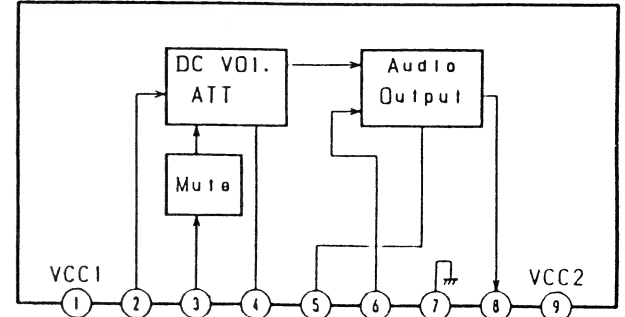








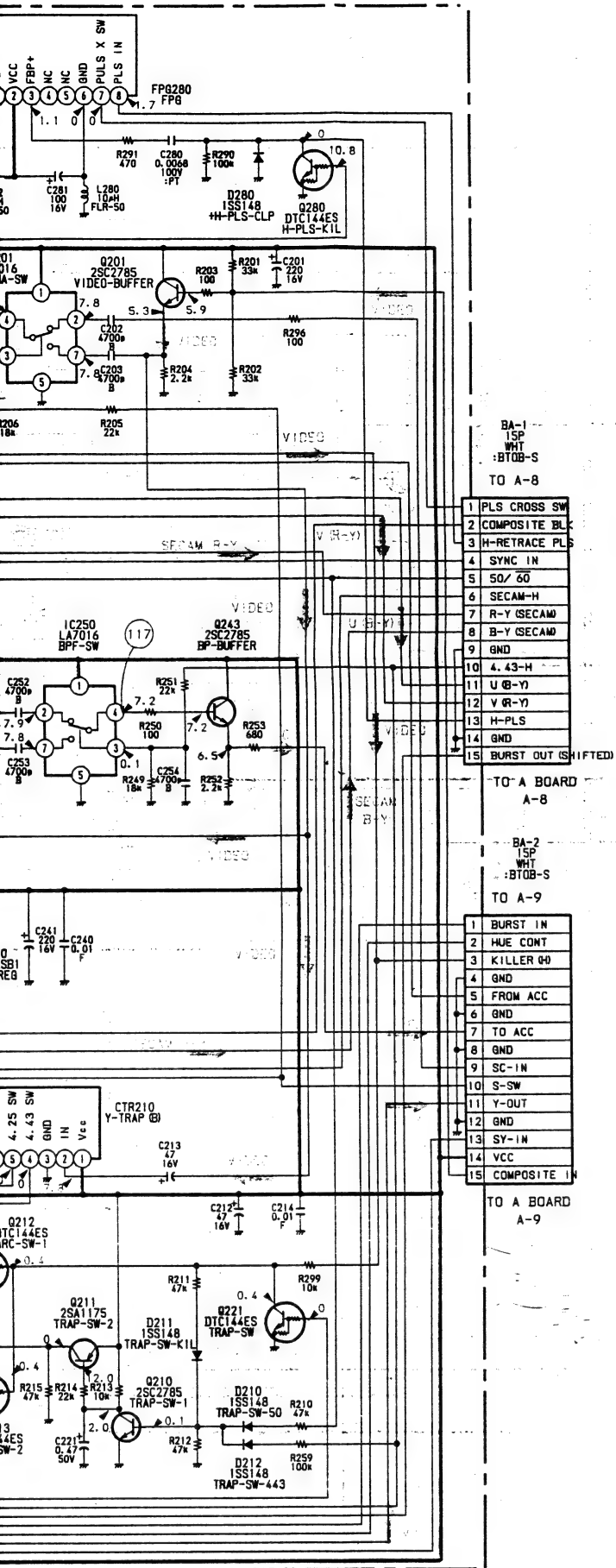
A BOARD IC1001 AN5265



**A**  
( SIGNAL PROCESS  
DEFLECTION SYSTEM )







**BA BOARD**

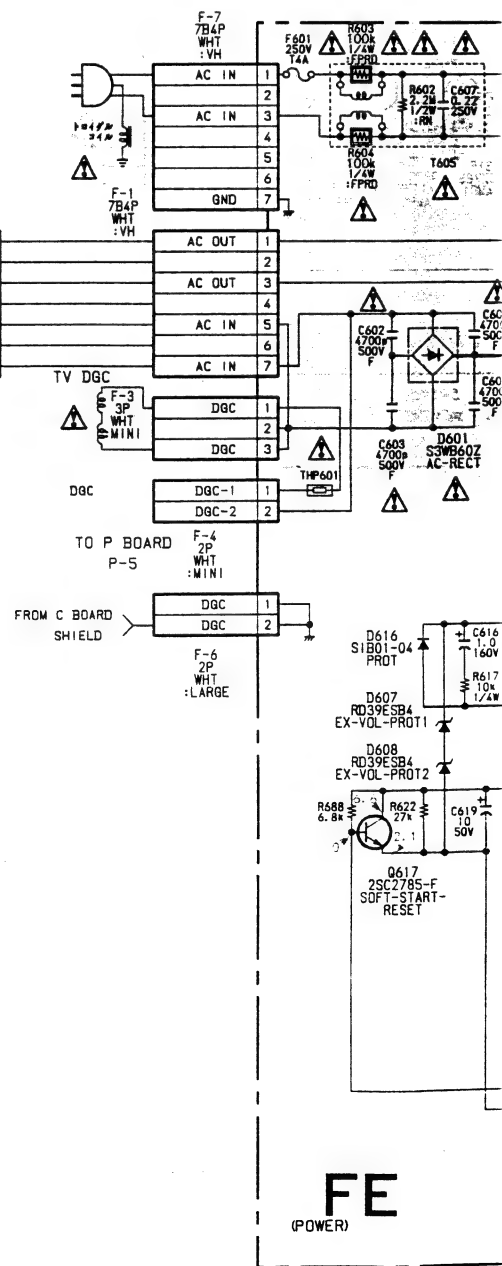
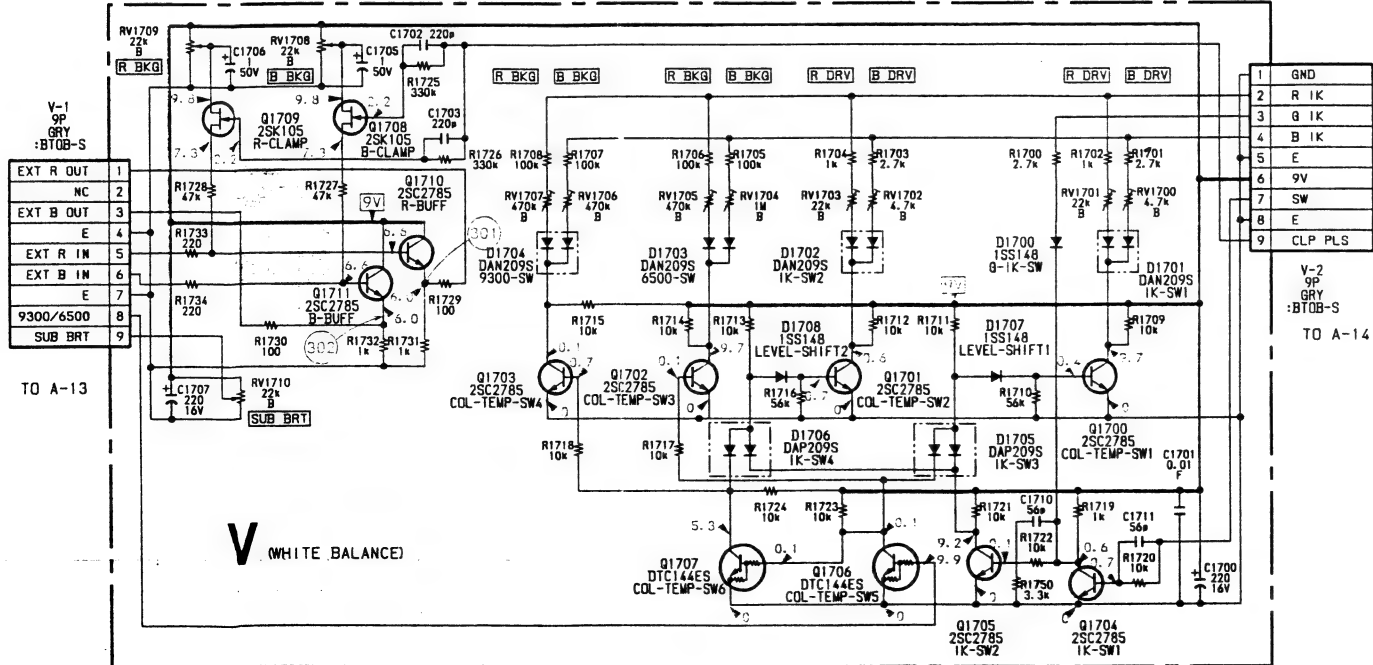
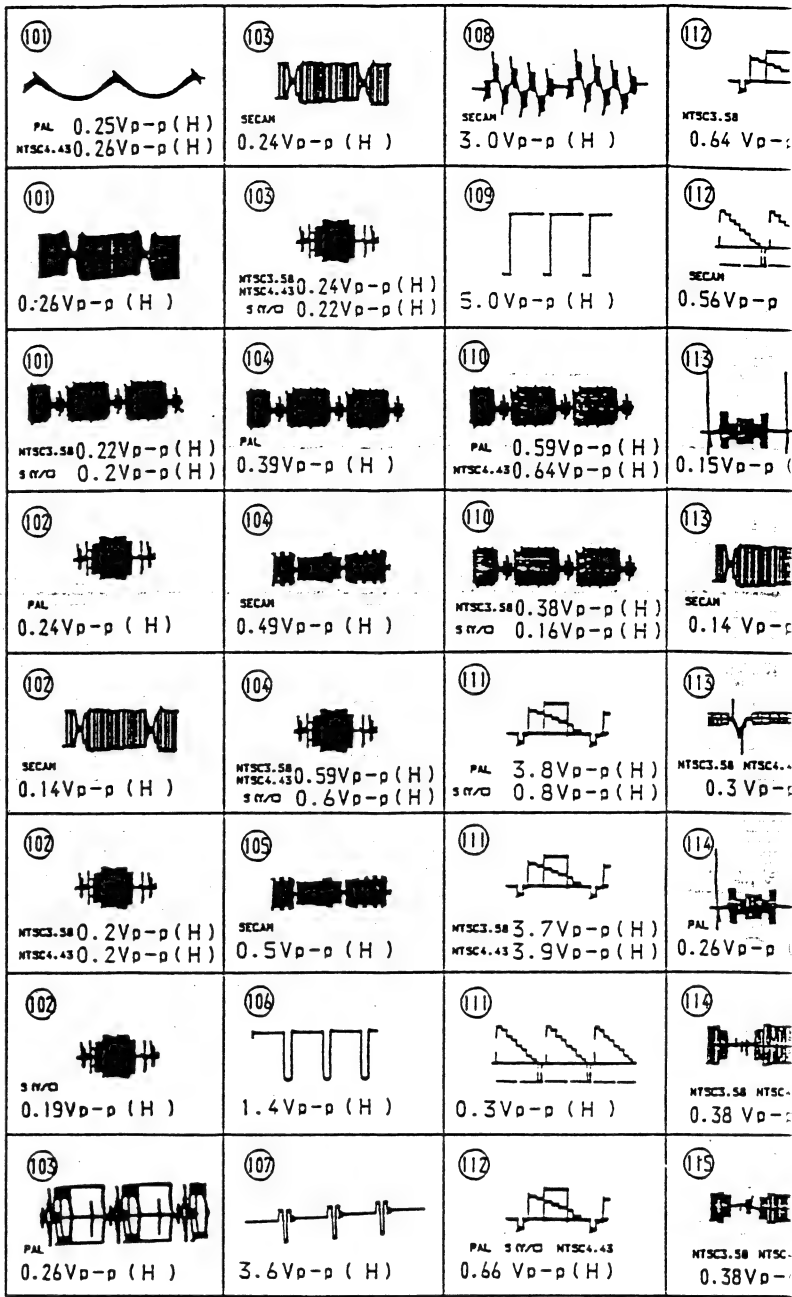
Q-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q211	E 12.0 C 11.4 B 0.5	12.0 11.4 0	0 12.0 0	12.0 11.4 0		
Q212	E 5.3 C 5.0 B 0.5	5.3 5.0 0	0 0 0	5.3 5.0 0		
Q213	E 0 C 0.5 B 0	0 0 0	0 0.4 0	0 0.5 0		
Q221	E 0 C 0.5 B 0	0 0 0	0 0.4 0	0 0.5 0	0.4 0.5 0	0.5 0.5 0
Q258	E 2.4 C 2.4 B 2.4	2.4 2.4 2.4	2.4 2.4 2.4	2.4 2.4 2.4	2.4 2.4 2.4	2.4 2.4 2.4
Q259	E 3.2 C 3.2 B 3.2	3.2 3.2 3.2	2.9 2.9 2.9	3.0 2.9 2.9	2.9 2.9 2.9	2.9 2.9 2.9
Q261	E 12.0 C 0 B 0	12.0 0 0	0.1 0.6 0.6	0.1 0.6 0.6	0.1 0.6 0.6	0.1 0.6 0.6
Q280	E 0 C 0 B 0	0 0 0	10.8 10.8 10.8	10.8 10.8 10.8	10.8 10.8 10.8	10.8 10.8 10.8
Q222	E 7.7 C 6.7 B 0	6.7 12.0 0	12.0 12.0 11.8	11.8 11.8 11.8	11.8 11.8 11.8	11.8 11.8 11.8
Q401	E 0 C 2.4 B 2.4	0 2.5 2.4	0 2.4 2.4	0 2.4 2.4	0 2.4 2.4	0 2.4 2.4
Q402	E 2.4 C 2.4 B 0	2.5 2.4 0	2.4 2.4 0	2.4 2.4 0	2.4 2.4 0	2.4 2.4 0
Q405	E 0 C 0 B 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Q408	E 11.1 C 7.1 B 7.1	11.2 7.1 7.1	11.2 7.1 7.1	11.1 7.1 7.1	11.1 7.1 7.1	11.1 7.1 7.1

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC250	(1)	4.6	4	8.1	4.6	3	8
IC260	(1)	2.6	2.6	7.8	7.8	7.7	7.6
IC261	(1)	0	0	10.9	10.8	10.7	10.6
IC401	(1)	3.2	3.2	2.9	2.9	2.9	2.9
IC210	(1)	12.0	12.0	0.1	0.1	0.1	0.1
IC210	(1)	10.8	10.8	10.7	10.6	10.6	10.6
IC210	(1)	7.2	10.6	7.2	7.2	7.1	7.9
IC210	(1)	7.2	7.2	7.2	7.2	7.1	7.6
IC210	(1)	10.7	0.1	10.7	10.7	10.5	10.4
IC210	(1)	0	0	10.9	10.8	10.6	10.6
IC210	(1)	5.8	5.3	7.2	7.2	7.1	7.8
IC210	(1)	7.2	10.6	7.2	7.2	7.1	7.8
IC210	(1)	7.2	10.6	3.6	3.6	3.6	3.5
IC210	(1)	12.0	12.0	0.1	0.1	0.1	0.1
IC210	(1)	0.6	10.3	3.6	0.6	3.6	0.3
IC210	(1)	5.8	3.6	4.3	5.6	4.2	3.4
IC210	(1)	10.7	0.1	10.7	10.7		
IC210	(1)	7.7	6.7	12.0	12.0	11.8	11.8
IC210	(1)	12.0	12.0	0	0	0	0
IC210	(1)	0.1	0.1	0	0	10.6	0.1
IC210	(1)	0.1	0.1	0.1	0.1	0.6	0.1

\*: MEASUREMENT IMPOSSIBILITY.

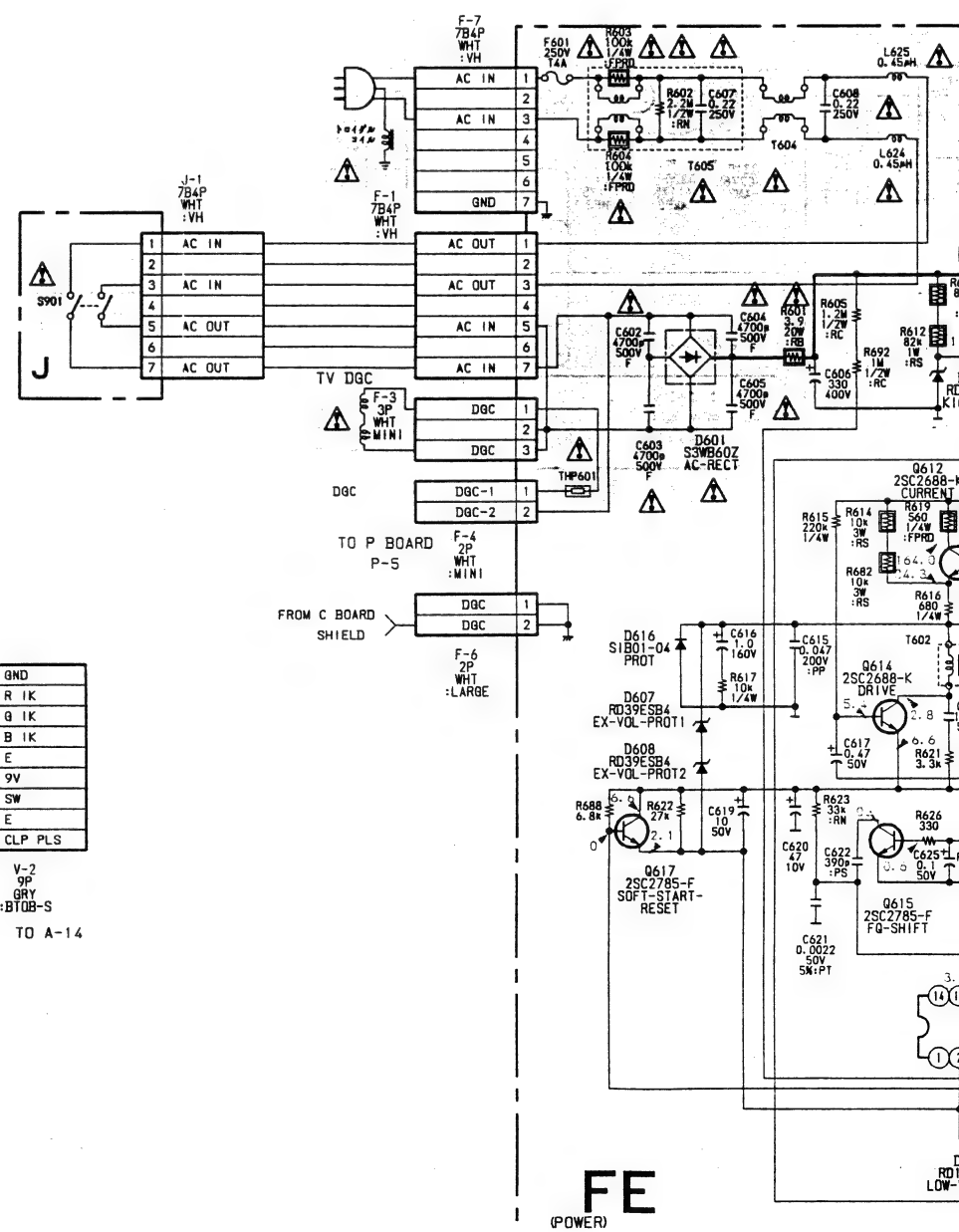
# BA BOARD WAVEFORMS



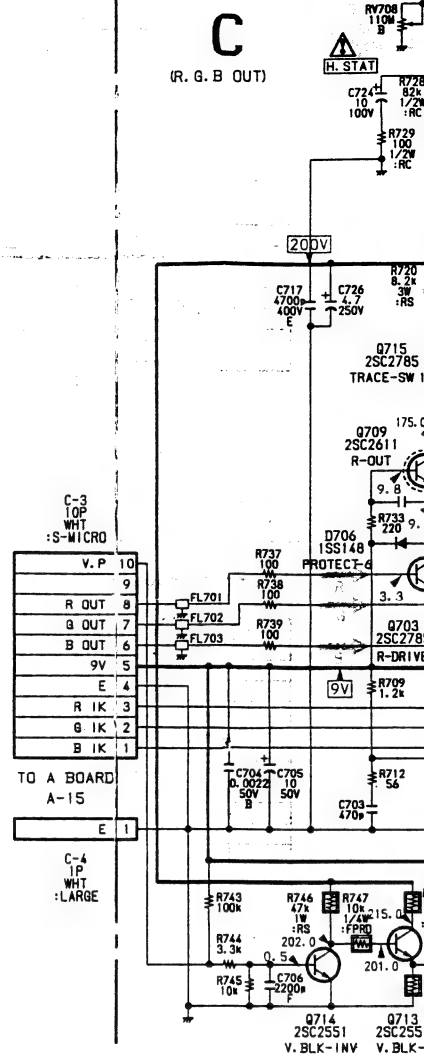
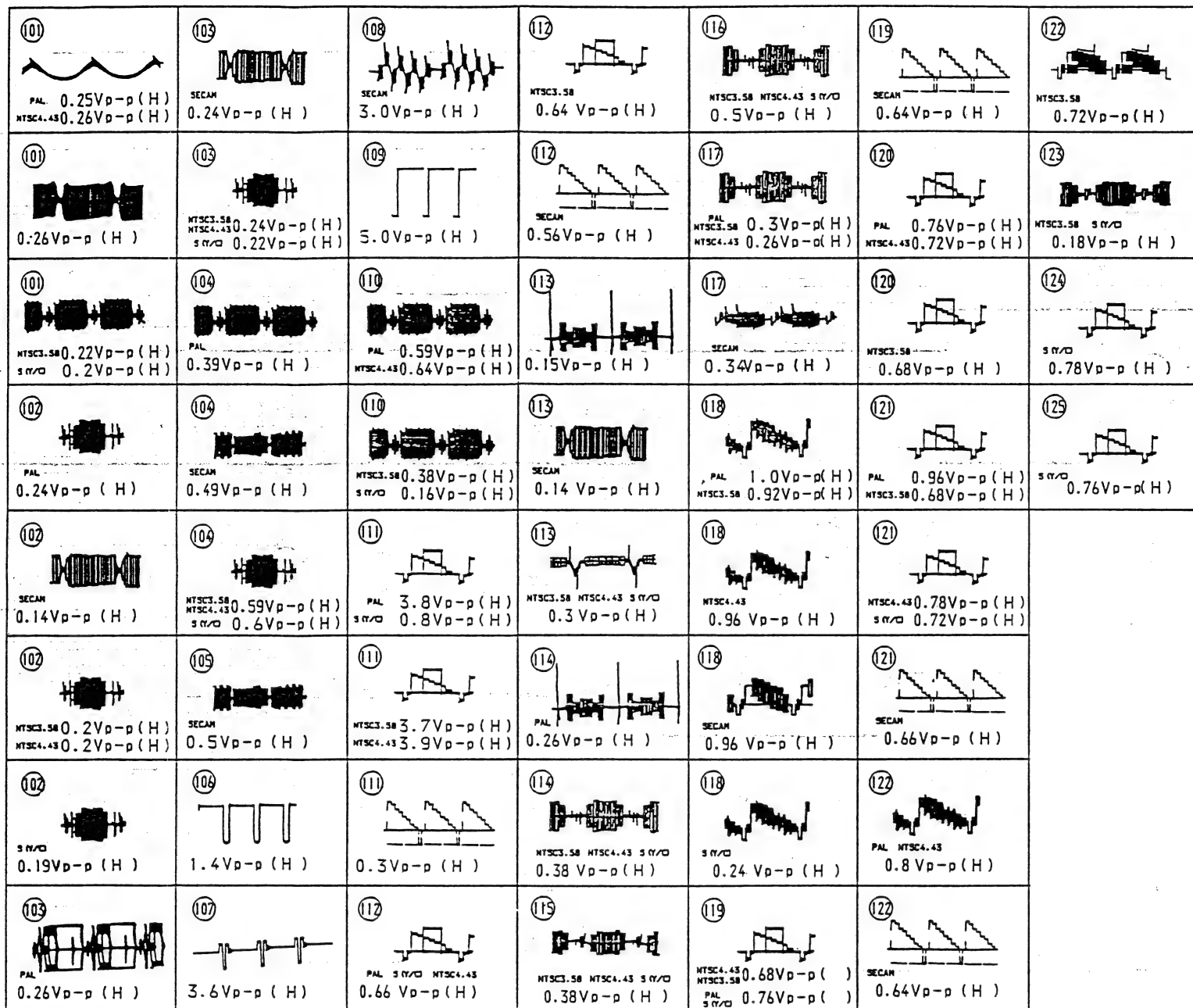


IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
IC250	(1)	4.4	4	3.1	4.4	3	4
IC281	(1)	3	3	3	3	4.7	3.1
	(10)	2.4	2.4	2.8	2.8	2.7	2.4
	(11)	1.2	1	1.5	1.5	1.7	1.6
IC260	(1)	1.1	1.1	1.8	1.8	2.1	2.1
	(10)	12.2	12.2	9.1	9.1	9.9	9.9
	(11)	10.6	10.6	10.7	10.6	10.4	8.1
	(10)	7.2	10.4	7.2	7.2	7.1	2.8
	(11)	7.2	7.2	7.2	7.2	7.1	2.8
	(1)	10.7	9.1	10.7	10.7	10.5	10.4
IC261	(1)	3	3	10.9	10.8	10.6	10.6
	(1)	5.8	5.8	7.2	7.2	7.1	2.8
	(10)	7.2	10.4	7.2	7.2	7.1	2.8
	(11)	7.2	10.6	3.4	3.4	3.4	3.5
	(10)	12.0	12.0	9.1	9.1	9.1	9.1
	(1)	9.6	10.3	3.6	3.6	3.6	10.3
	(1)	5.4	5.4	5.4	5.4	4.2	5.4
IC401	(1)	10.7	3.1	10.7	10.7	—	—
	(1)	7.7	6.7	12.0	12.0	11.8	11.8
	(1)	12.0	12.0	3	12.0	9.1	11.8
IC210	(1)	3.1	3.1	3.1	3.1	10.6	9.1
	(1)	—	—	—	—	10.6	9.1

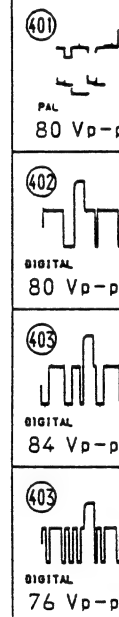
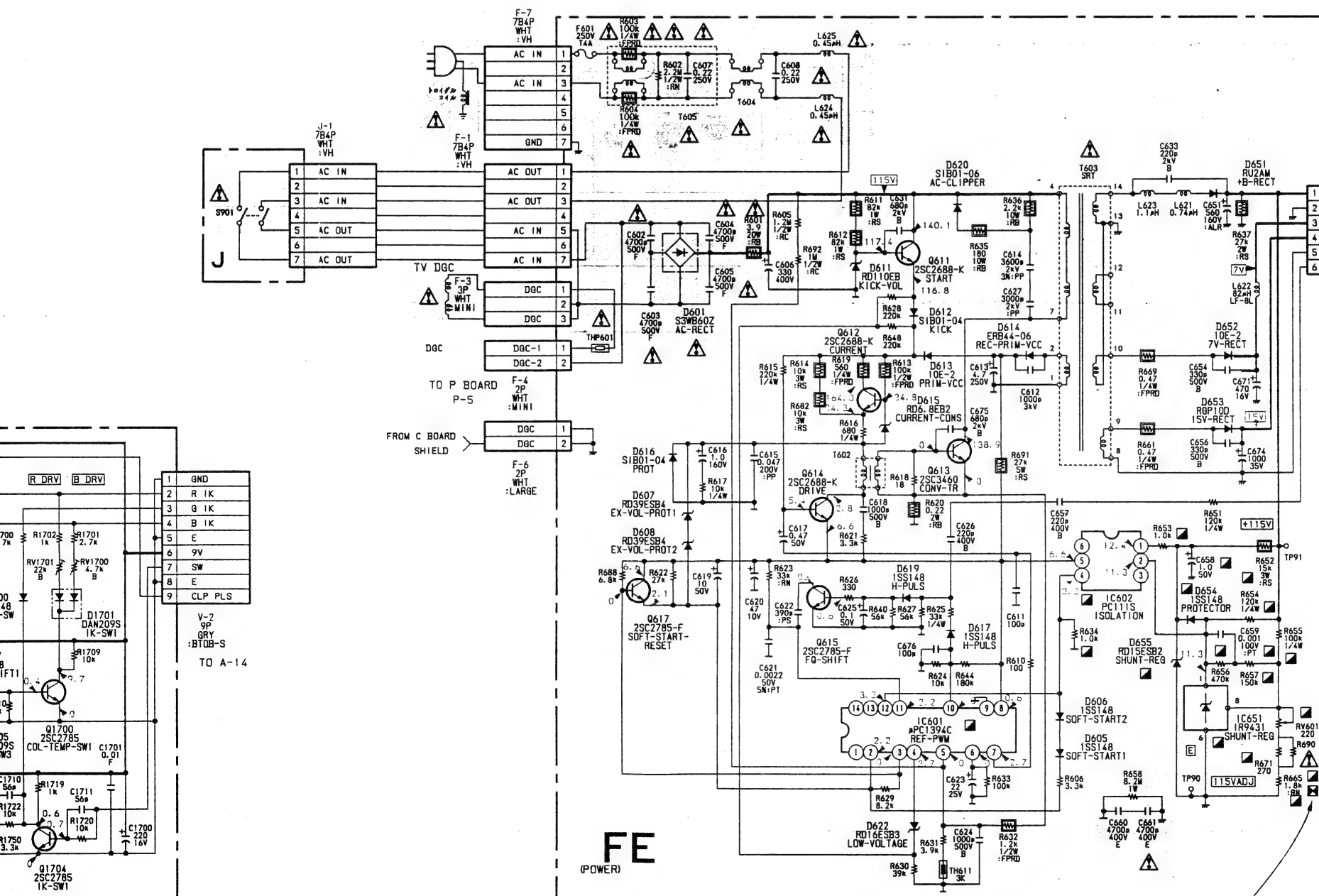
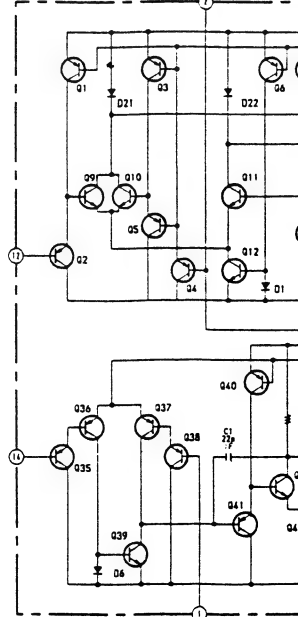
#: MEASUREMENT IMPOSSIBILITY.



## BA BOARD WAVEFORMS

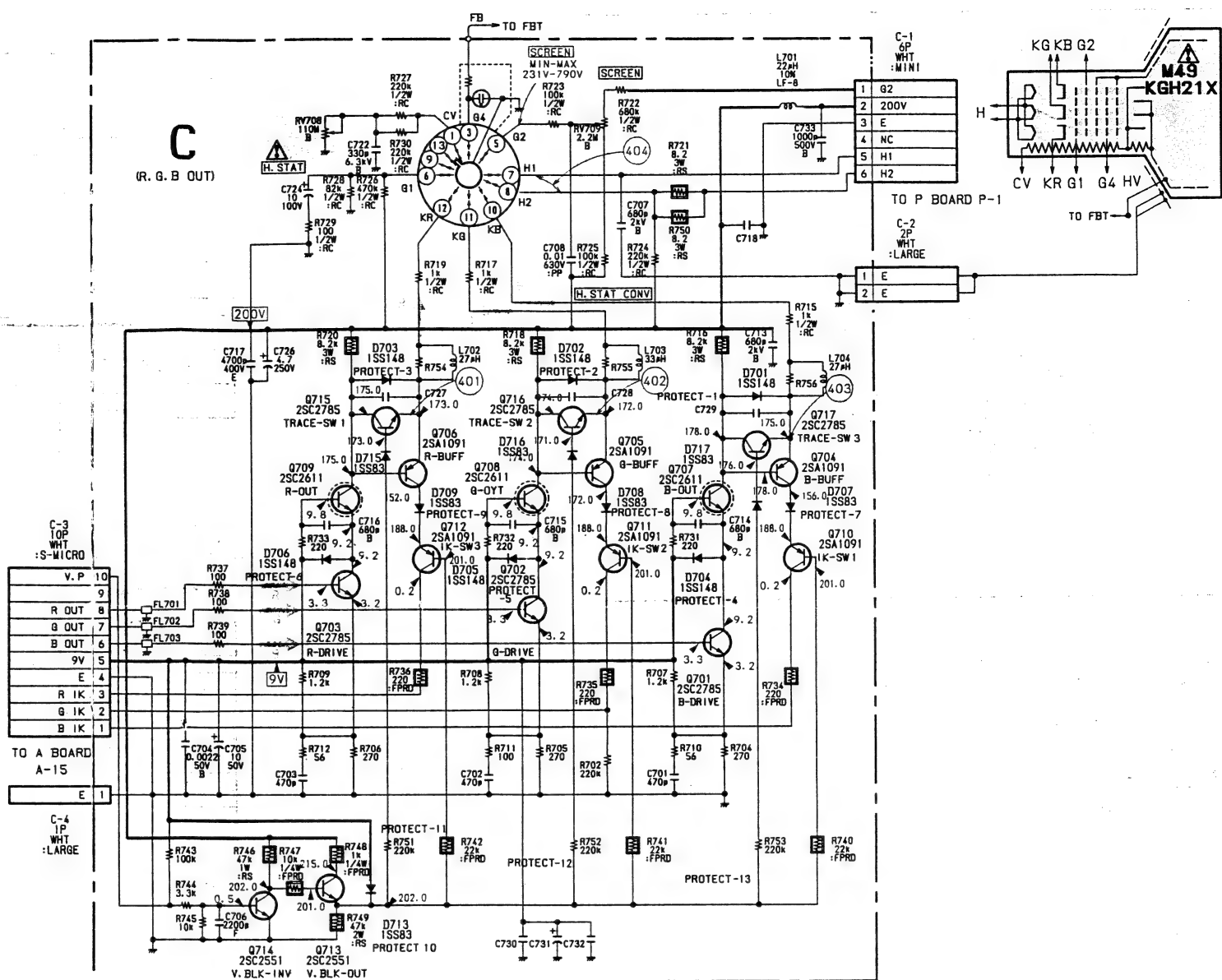
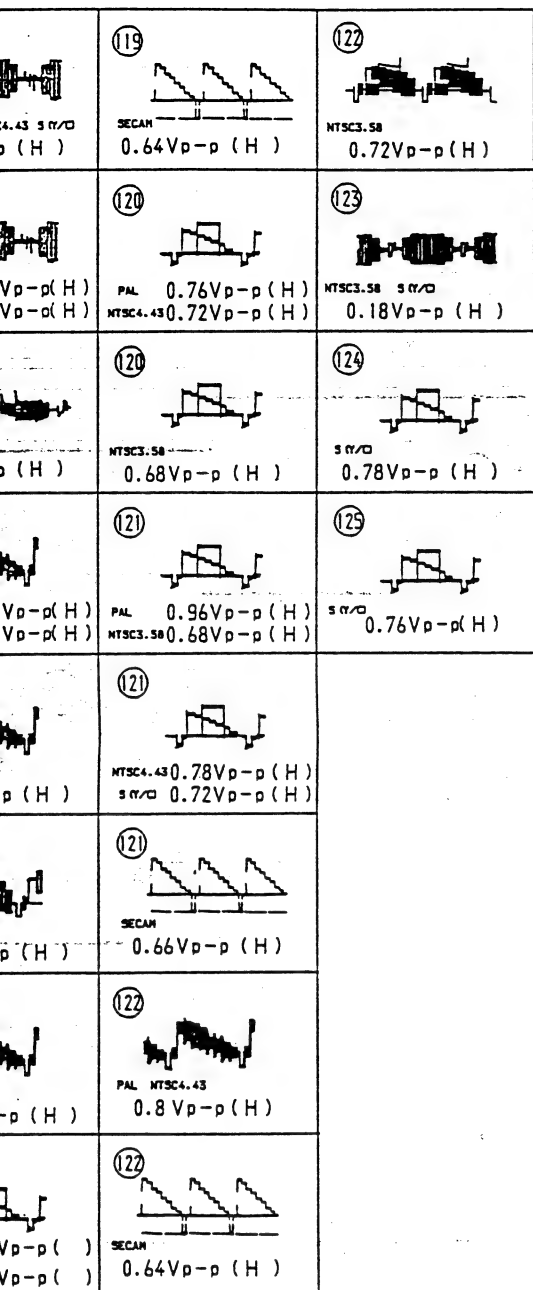


## C BOARD

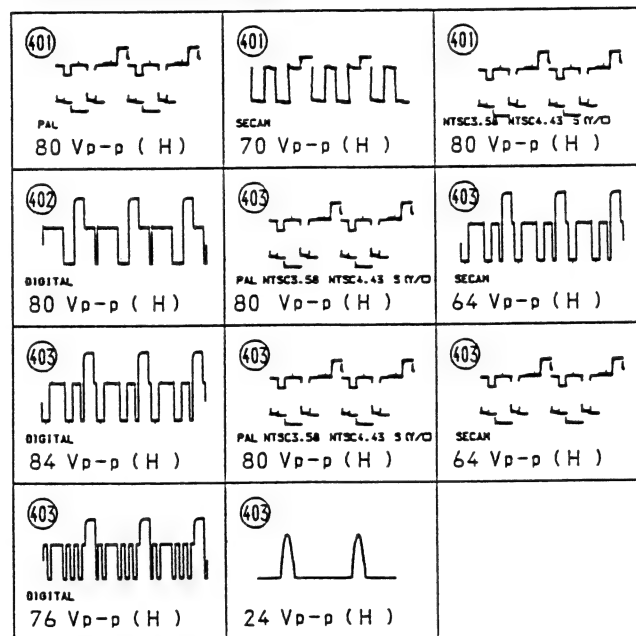
FE BOARD IC601  $\mu$ PC13

R690: See page 17, 18



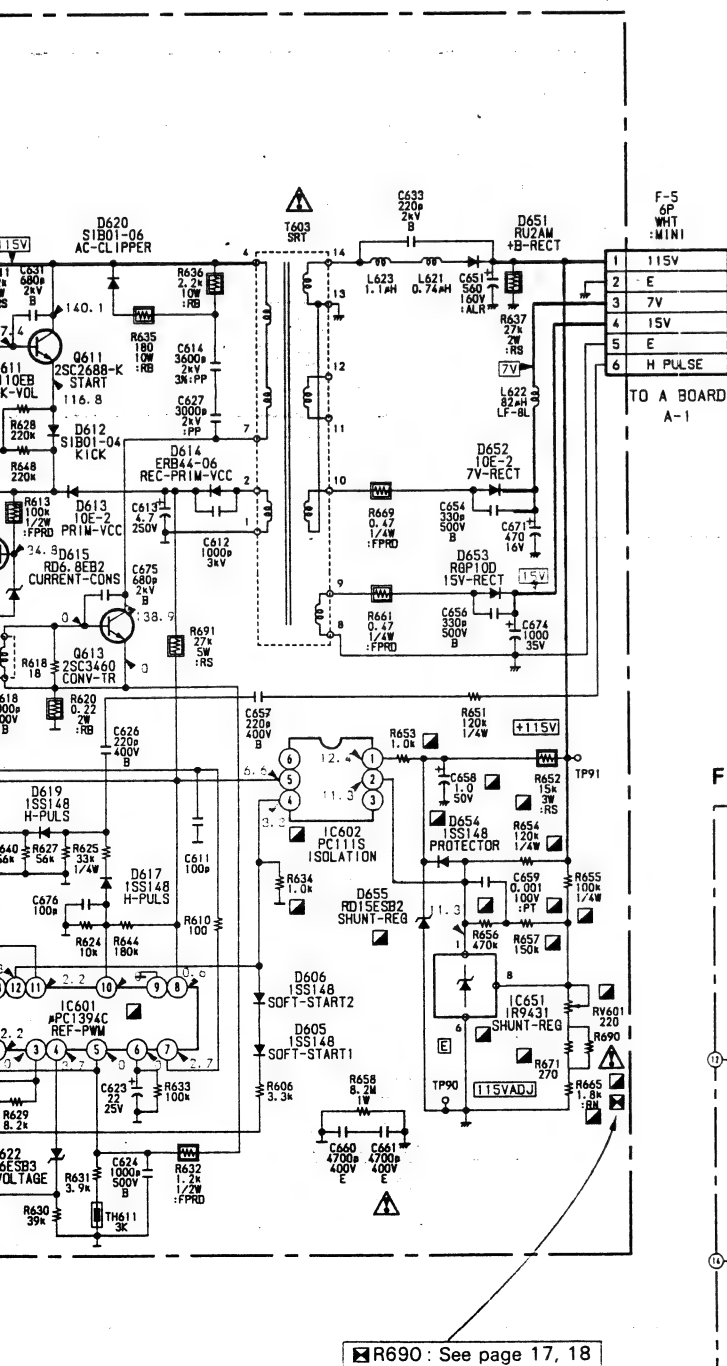
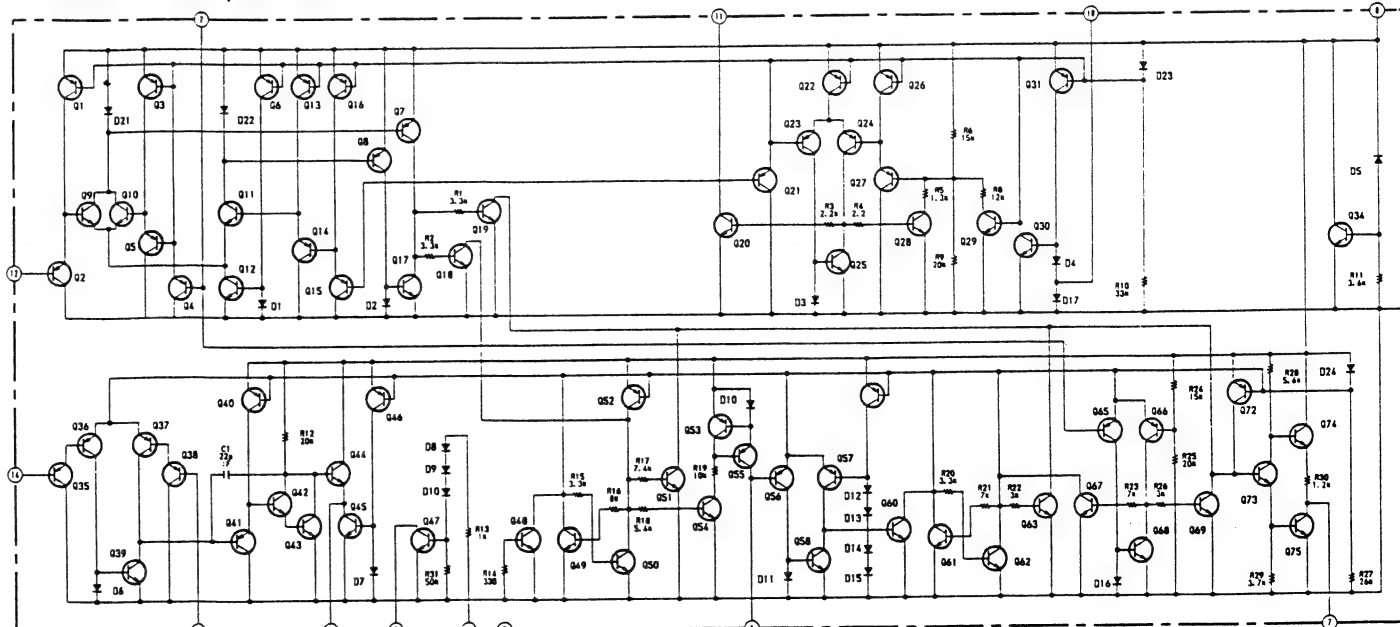


## C BOARD WAVEFORMS



## C BOARD

Q.NO.	PAL	SECAM	NTSC		S-VHS	DIGITAL
			3.58	4.43		
2704	E	75	75	75	164	176
	C	75	75	55	14	---
	B	77	77	79	65	71
2705	E	71	72	72	58	73
	C	68	65	69	58	67
	B	73	74	74	58	67
2706	E	71	704	73	59	76
	C	61	65	52	53	66
	B	73	704	75	59	68
2707	E	72	72	72	70	70
	C	77	77	79	65	71
	B	78	78	80	68	74
2708	E	73	74	75	58	73
	C	---	---	---	---	---
	B	---	---	---	---	---
2709	E	73	74	75	59	79
	C	---	---	---	---	---
	B	---	---	---	---	---
2710	E	70	72	58	70	---
	C	---	---	---	---	---
	B	75	74	75	59	79
2711	E	70	70	58	70	---
	C	---	---	---	---	---
	B	74	74	75	59	79
2712	E	70	71	58	70	---
	C	---	---	---	---	---
	B	74	74	75	59	79
2715	E	71	72	73	58	74
	C	73	74	75	68	79
	B	71	72	73	59	77
2716	E	71	72	72	58	75
	C	73	74	75	59	77
	B	70	72	71	58	70
2717	E	75	75	75	68	76
	C	75	77	79	65	73
	B	75	75	76	63	77

FE BOARD IC601  $\mu$ PC1394C

Ba

[CHROMA FOR 4 SYSTEM]

J

[POWER SW]

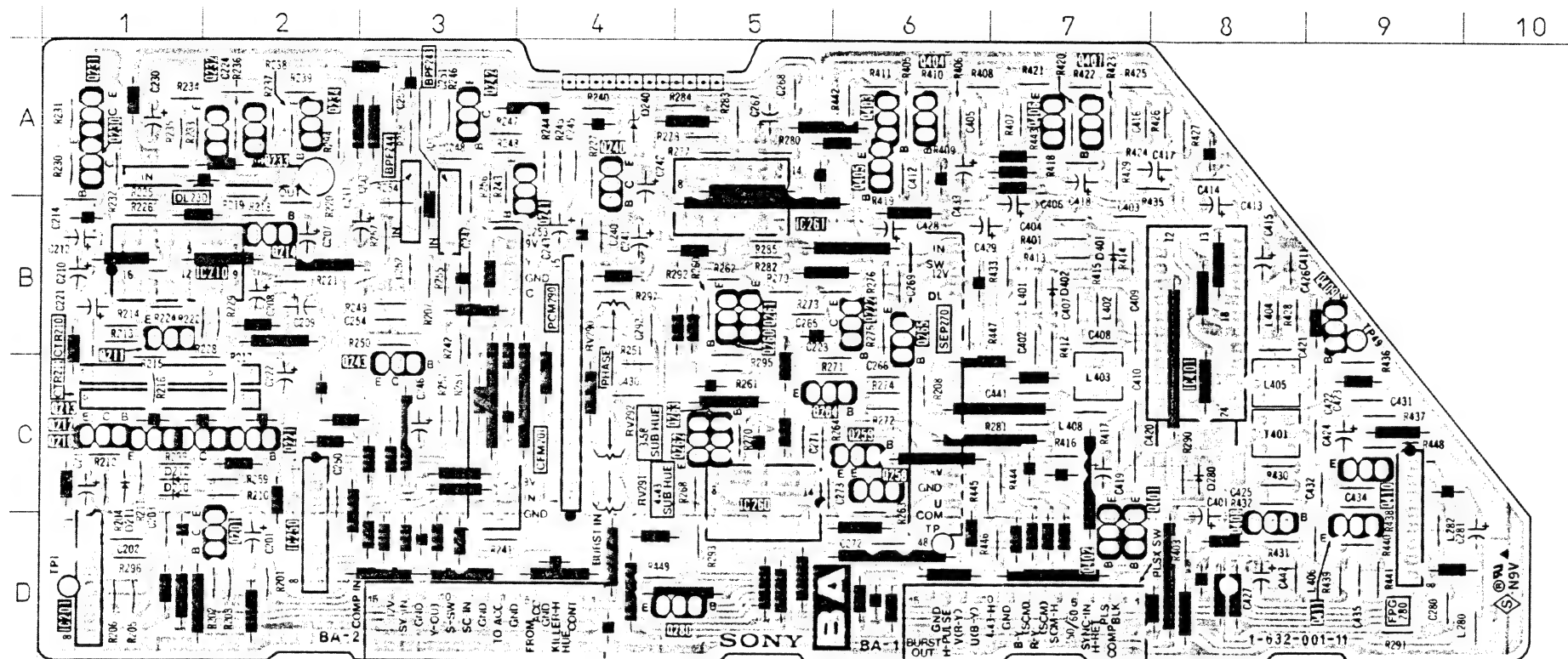
**P**

[ FBT' G2, 200V RECT,  
RELAY DRIVE,  
DYNAMIC FOCUS ]

H

TALL LAMP  
DGC SWITCH  
TRAP SWITCH

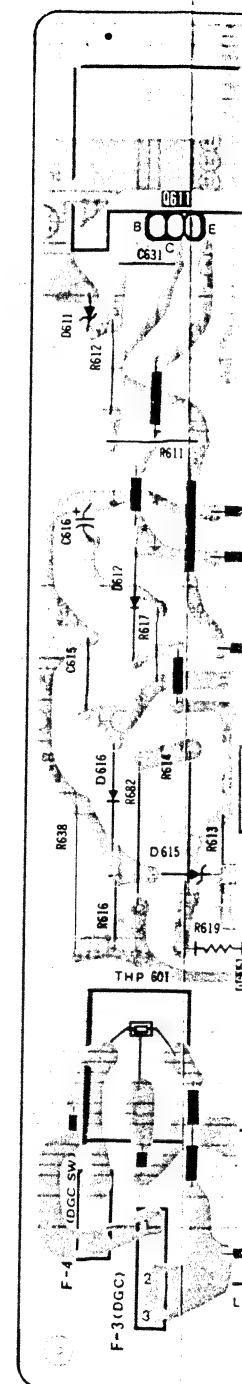
– BA Board –



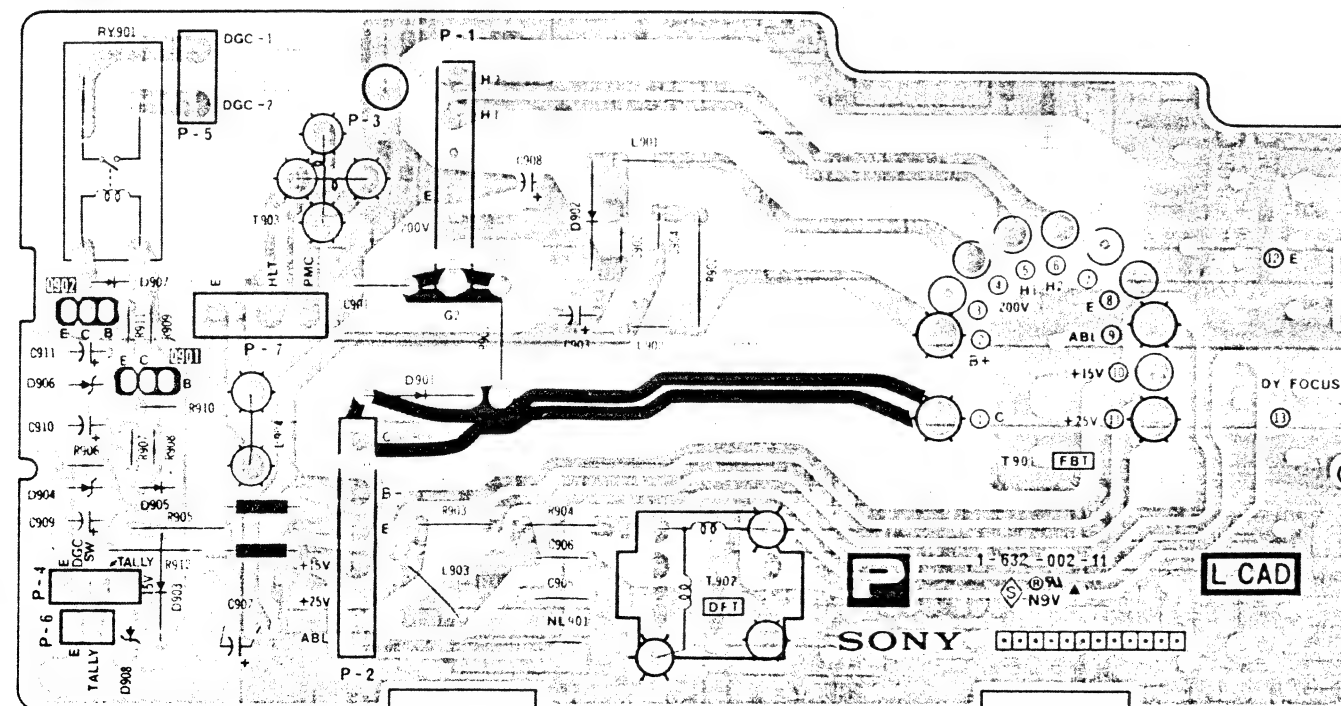
BA Board

<b>IC</b>		Q241	A-4	<b>DIODE</b>	
IC201	D-1	Q242	A-3	D210	C-1
IC210	B-1	Q243	C-3	D211	C-1
IC250	D-2	Q258	C-6	D212	C-1
IC260	C-5	Q259	C-6	D240	A-4
IC261	B-5	Q260	B-5	D280	C-8
IC401	B-8	Q261	B-5	D401	B-7
<b>TRANSISTOR</b>		Q262	C-5	D402	B-7
		Q263	C-5	<b>VARIABLE RESISTOR</b>	
Q264	C-5	RV290	B-4		
Q201	D-2	Q265	B-6	RV291	C-4
Q210	C-1	Q280	D-5	RV292	C-4
Q211	B-1	Q401	D-7		
Q212	C-1	Q402	D-7		
Q213	C-1	Q403	A-6		
Q214	B-2	Q404	A-6		
Q221	C-2	Q405	A-6		
Q222	B-6	Q406	A-7		
Q230	A-1	Q407	A-7		
Q231	A-1	Q408	D-8		
Q232	A-2	Q409	B-9		
Q233	A-2	Q410	C-9		
Q234	A-2	Q411	D-9		

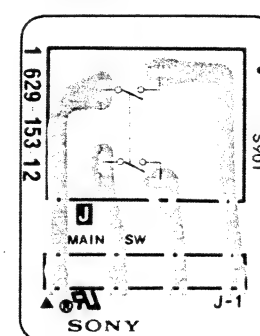
- FE Board -



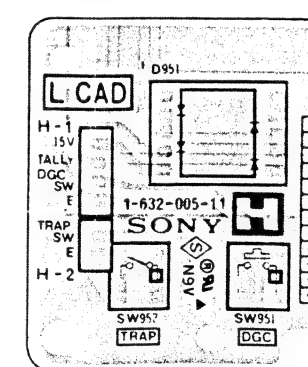
– P Board –



**— J Board —**



— H Board —



PVM-2043MD

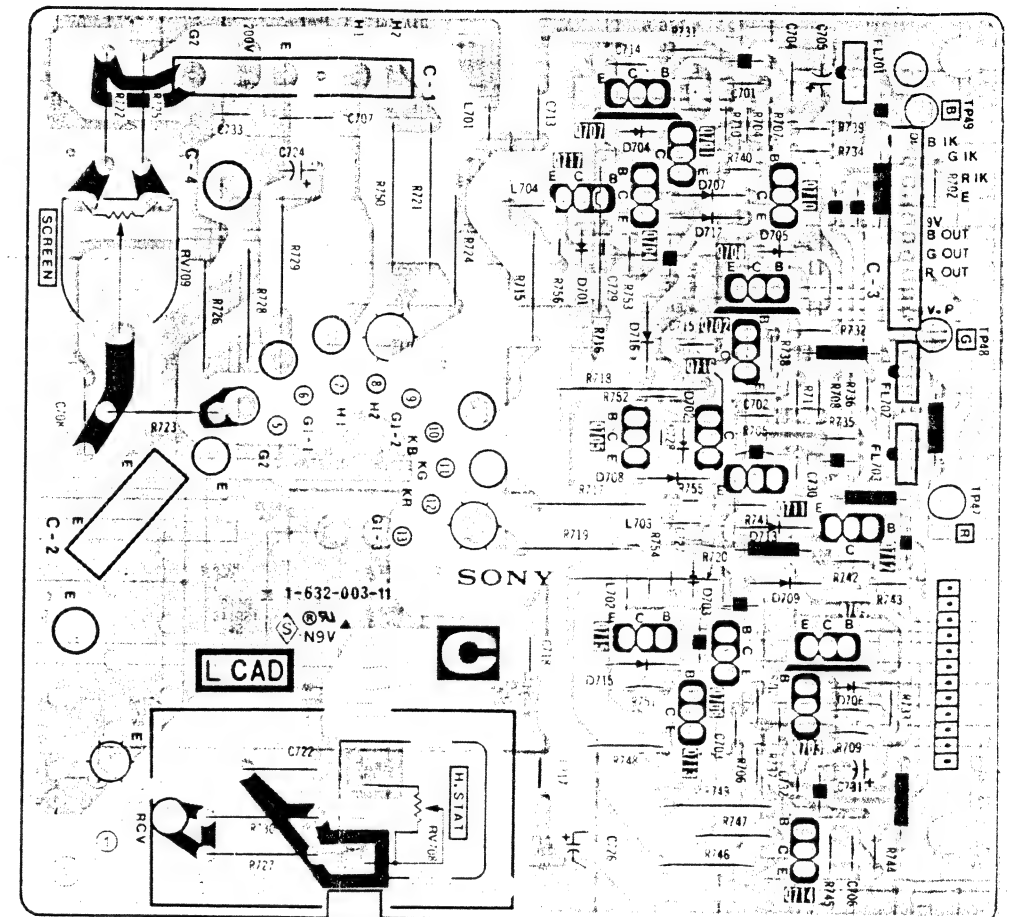
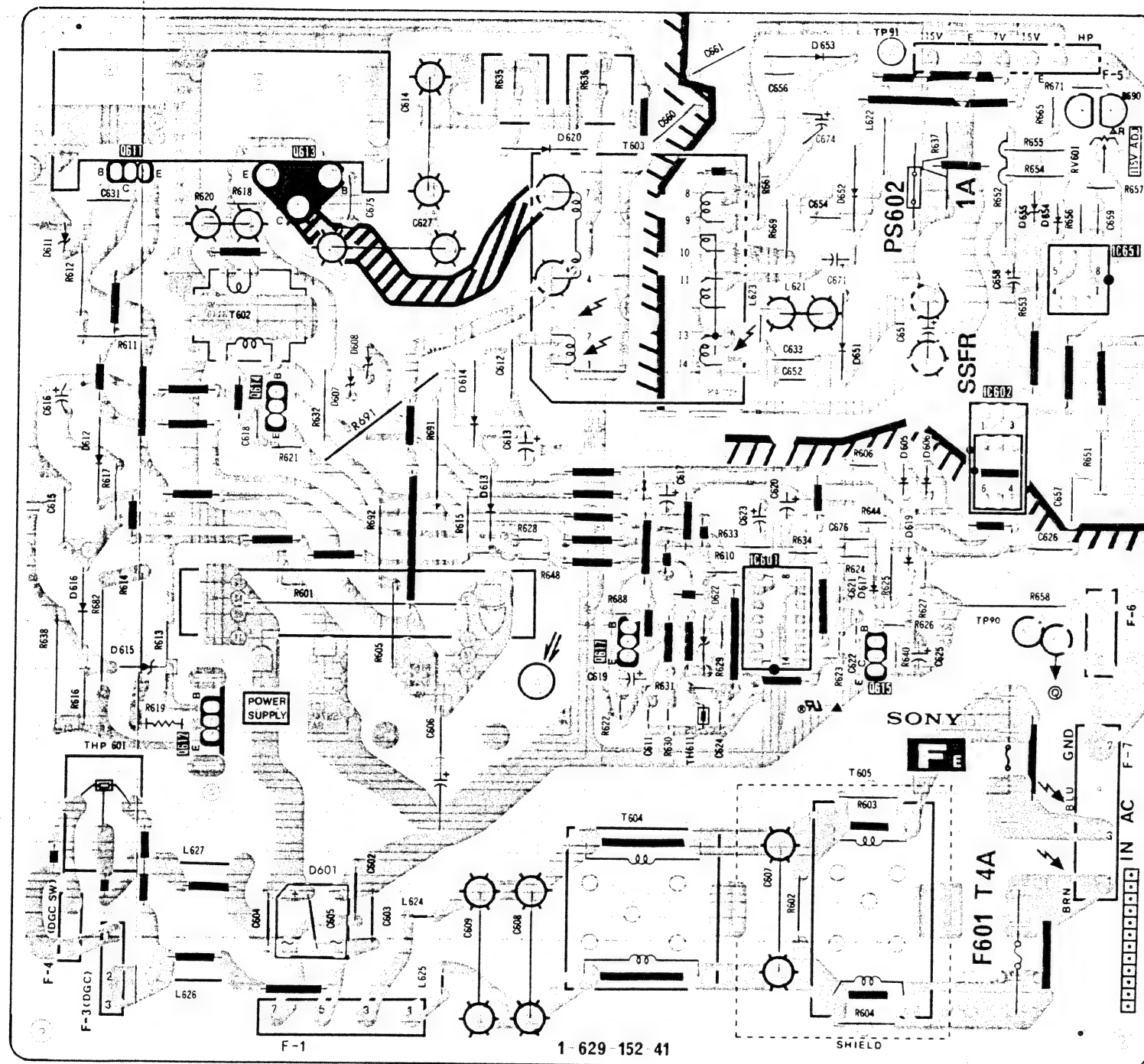
PVM-2043MD

**F E** [POWER]**C** [R-G-B OUT]**V** [WHITE BALANCE]

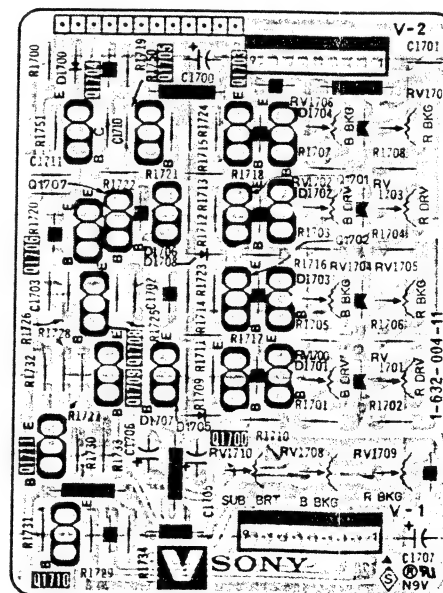
— FE Board —

— C Board —

CODE

C-1  
C-1  
C-1  
A-4  
C-8  
B-7  
B-7ABLE  
STORB-4  
C-4  
C-4

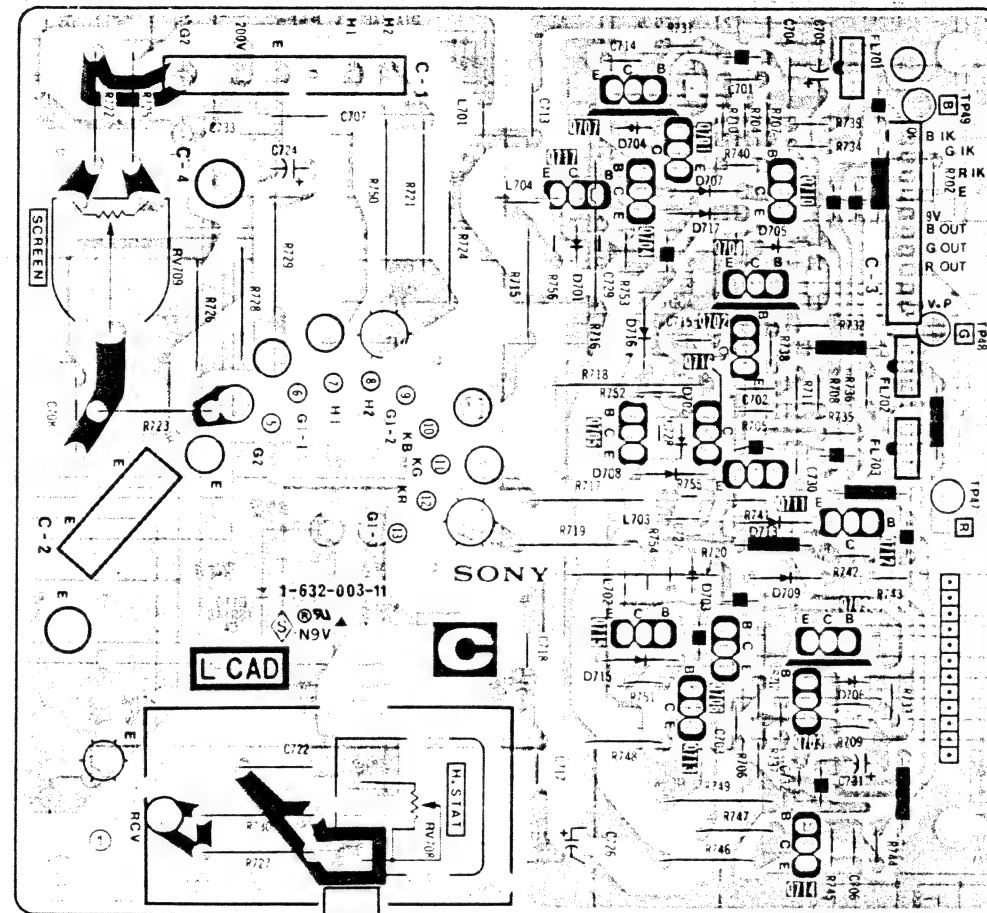
— V Board —



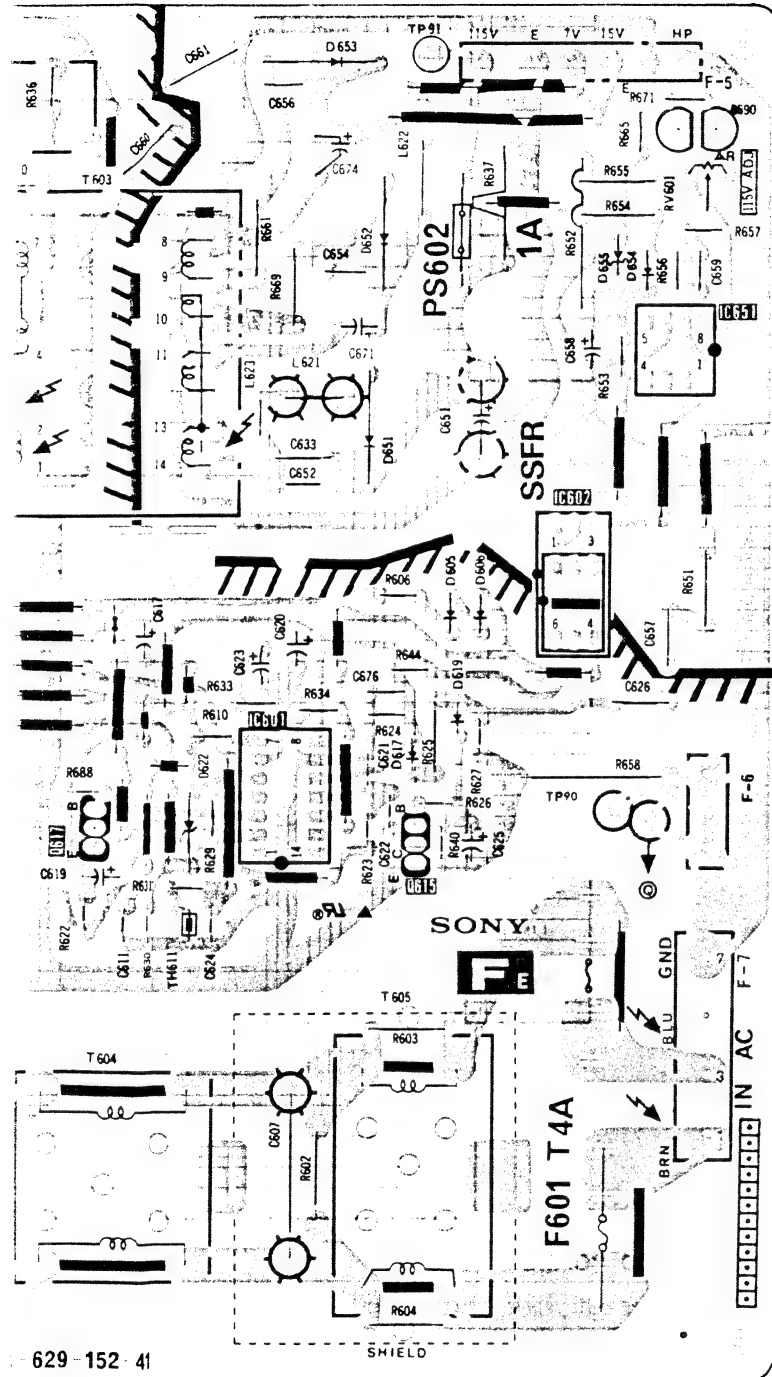
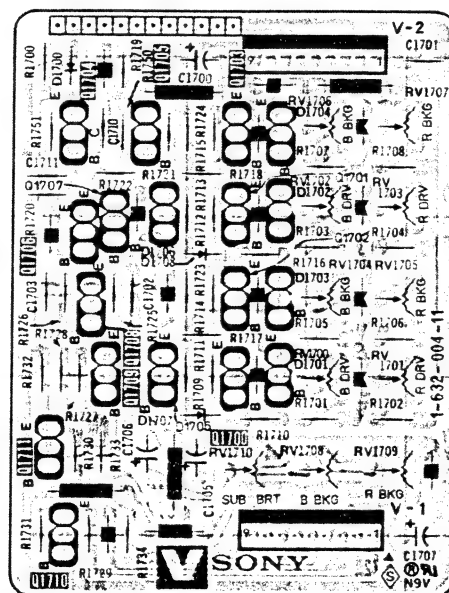


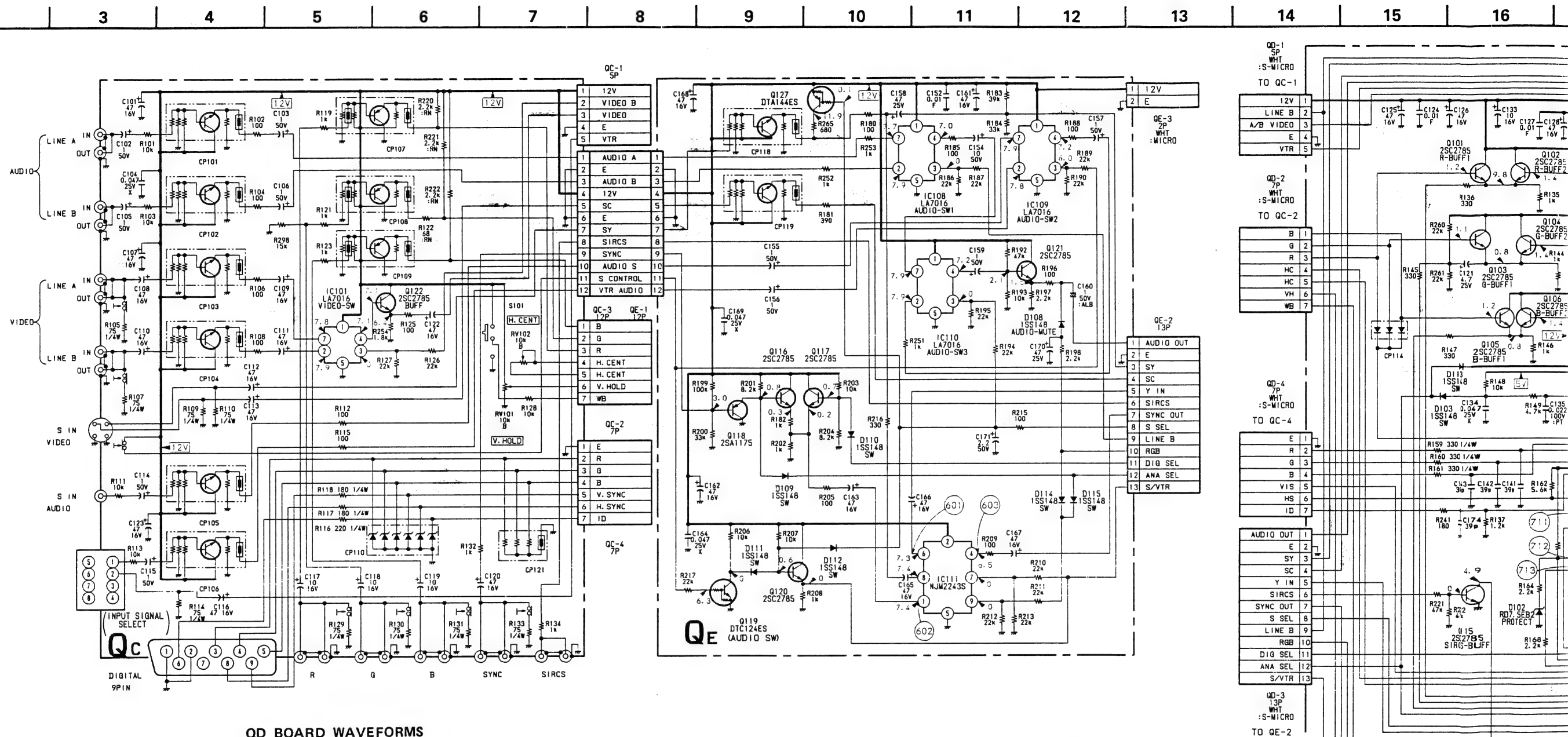
**FE** [POWER]**C** [R-G-B OUT]**V** [WHITE BALANCE]

- C Board -

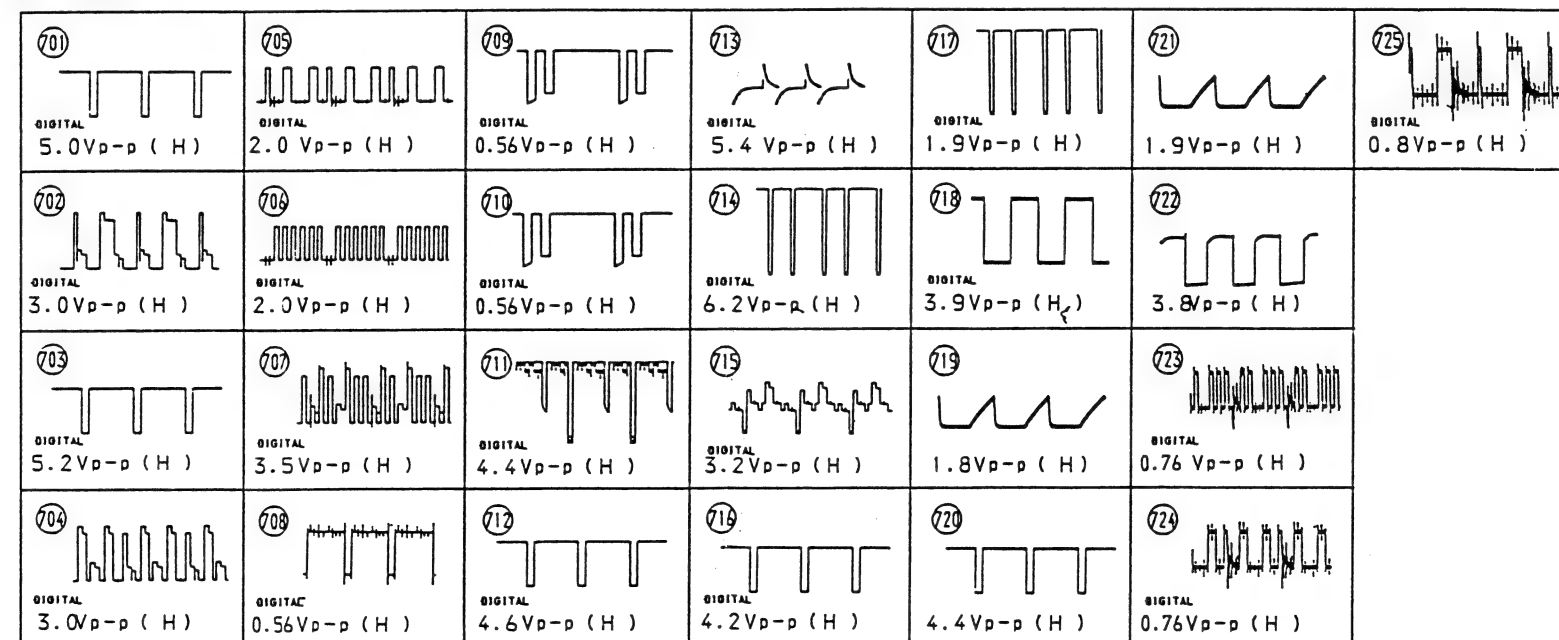


- V Board -





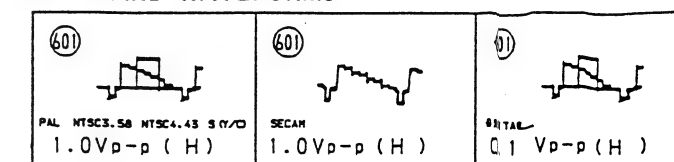
OD BOARD WAVEFORMS



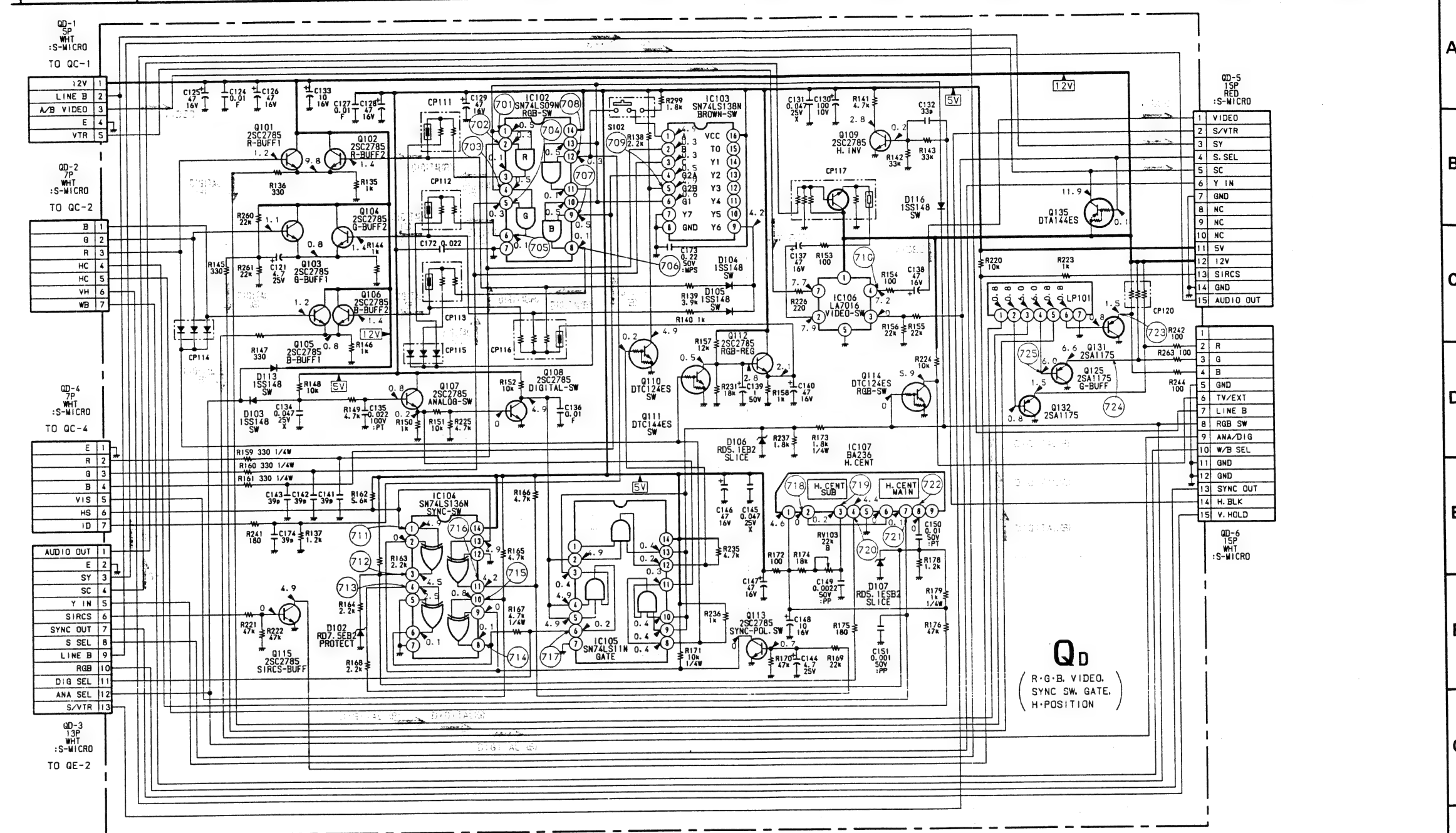
OD BOARD

IC-NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	VIDEO	DIGITAL
IC104	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	0.1	0.1	0.1	0.1	0.1	0.1
	(4)	0.8	0.8	0.8	0.8	0.8	0.8
IC105	(1)	4.8	4.8	4.8	4.8	4.8	4.8
	(2)	4.8	4.8	4.8	4.8	4.8	4.8
	(3)	0.1	0.1	0.1	0.1	0.1	0.1
	(4)	0.8	0.8	0.8	0.8	0.8	0.8
IC106	(1)	0	0	0	0	0	0
	(2)	0	0	0	0	0	0
	(3)	0	0	0	0	0	0
	(4)	0	0	0	0	0	0
IC107	(1)	0.2	0.2	0.2	0.2	0.2	0.2
	(2)	0.2	0.2	0.2	0.2	0.2	0.2
	(3)	0.1	0.1	0.1	0.1	0.1	0.1
	(4)	0	0	0	0	0	0

QE BOARD WAVEFORMS

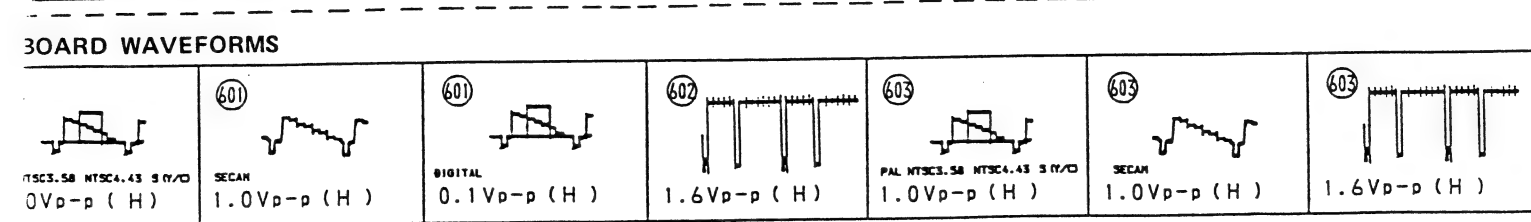


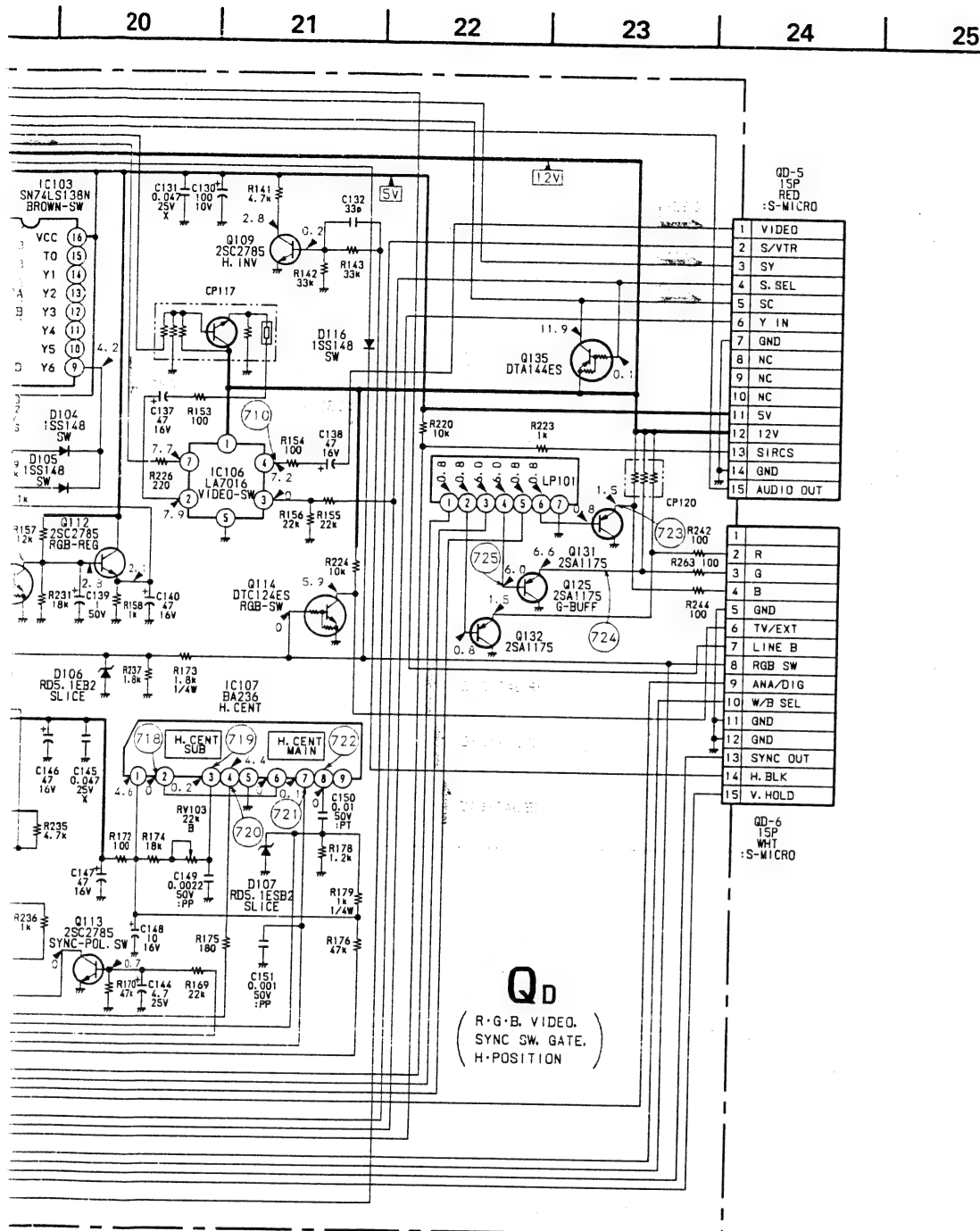
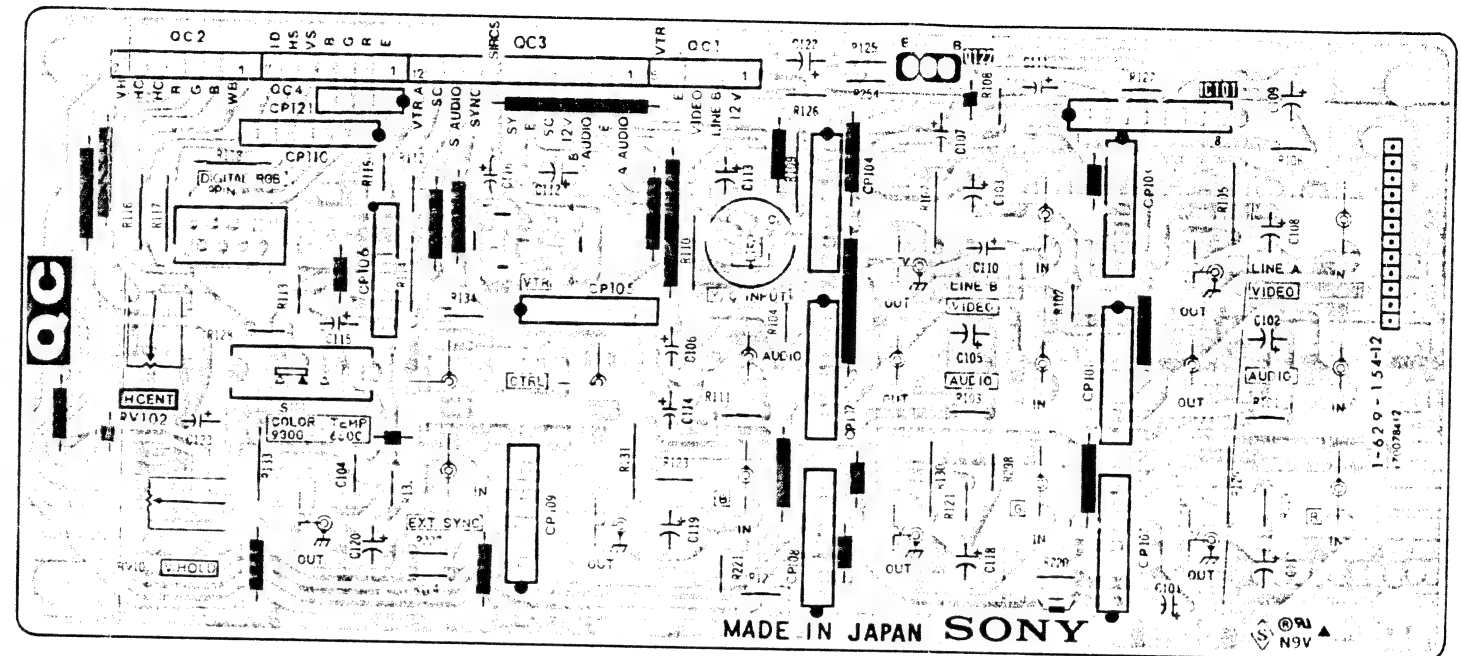




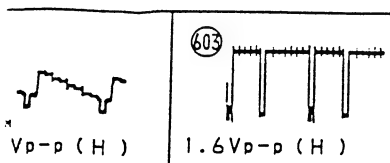
BOARD						
NO.	PIN-NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO/DIGITAL
104	( )	4.8	4.8	4.8	4.8	4.2
	( )	4.4	4.4	4.4	4.4	4.2
	( )	0.1	0.1	0.1	0.1	0.2
	( )	0.8	0.8	0.8	0.8	3.2
105	( )	4.1	4.1	4.2	4.1	3.8
	( )	4.8	4.8	4.9	4.8	4.1
	( )	0.4	0.4	0.4	0.4	0.4
	( )	0.2	0.2	0.2	0.2	0.2
106	( )	0	0	0	0	5.5
	( )	0	0	0	0	0
	( )	0.2	0.2	0.2	0.2	0.2
	( )	4.4	4.4	4.4	4.4	4.1
107	( )	0	0	0	0	1.8
	( )	0	0	0	0	0
	( )	0.1	0.1	0.1	0.1	0.6
	( )	0	0	0	0	1.8

Q·NO.	PAL	SECAM	NTSC 3.58	NTSC 4.43	S-VIDEO	DIGITAL
Q105	0.8	0.8	0.8	0.8	0.8	1.0
	1.1	1.1	1.2	1.1	1.1	1.2
Q106	0.8	0.8	0.8	0.8	0.8	1.0
	1.4	1.4	1.4	1.4	1.4	1.6
Q109	0.5	0.5	2.8	0.5	0.5	4.2
	0.4	0.4	0.2	0.4	0.4	0.5

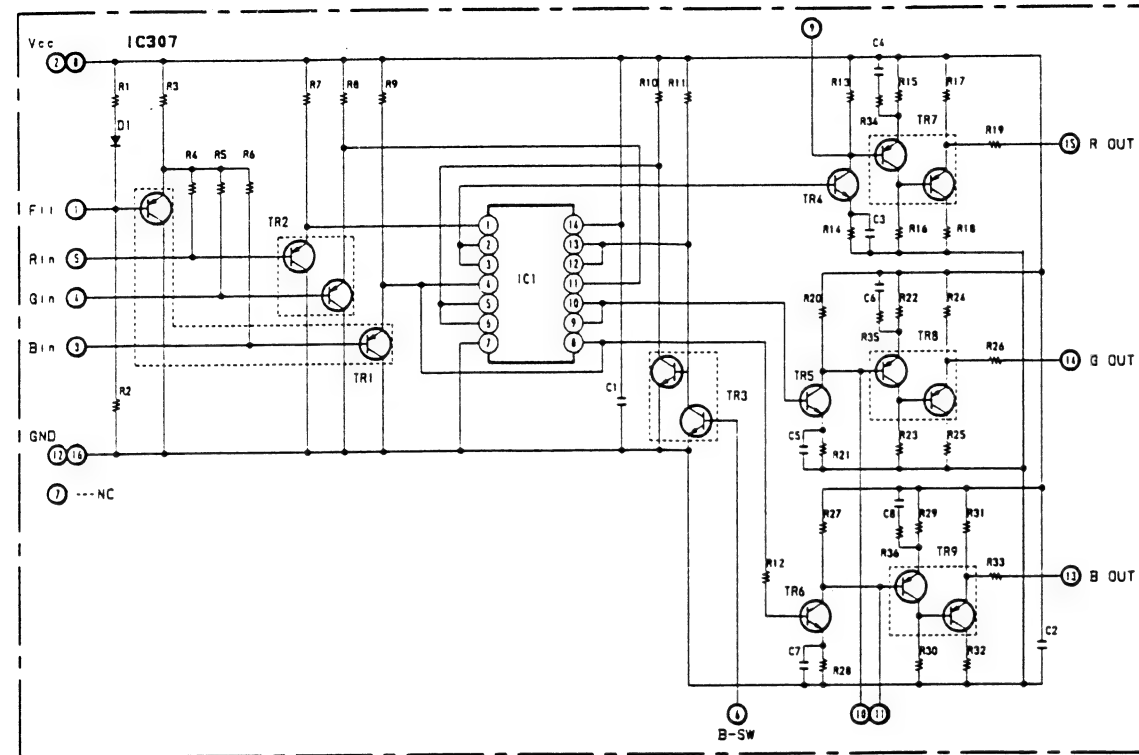




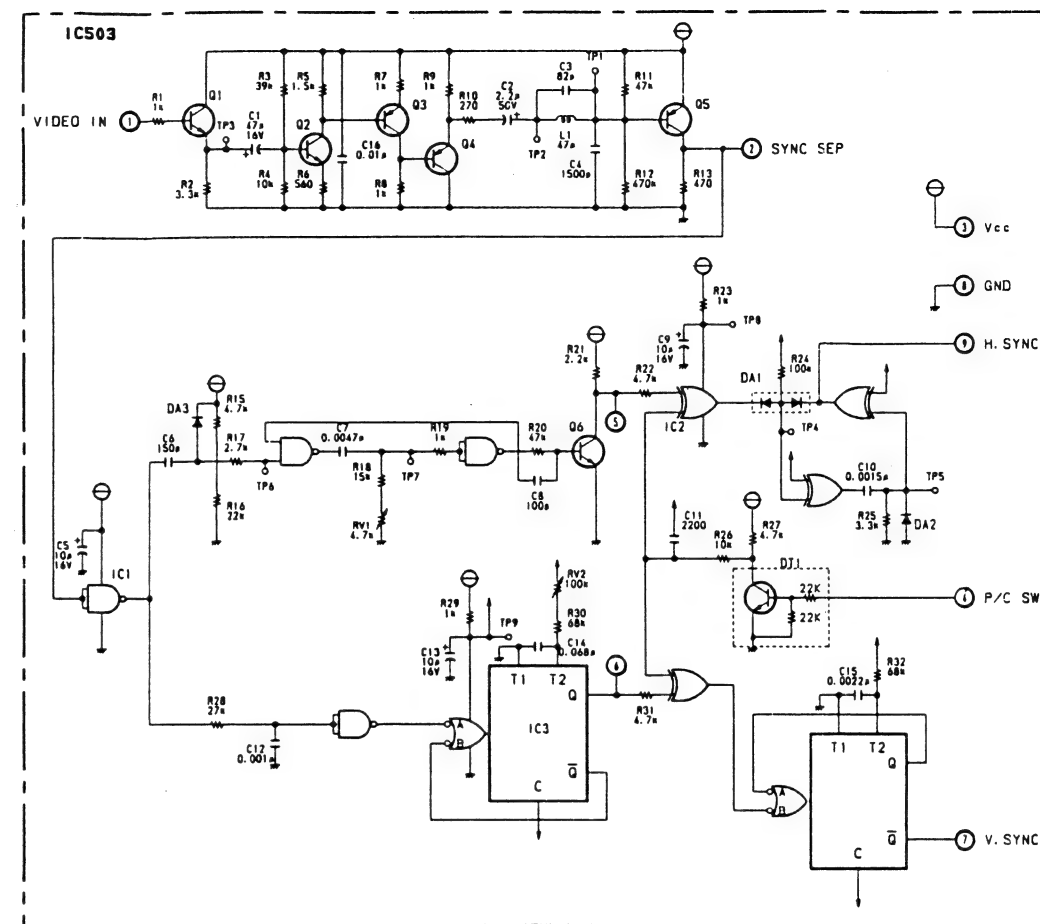
**Q<sub>D</sub>**  
( R·G·B. VIDEO.  
SYNC SW. GATE.  
H·POSITION )



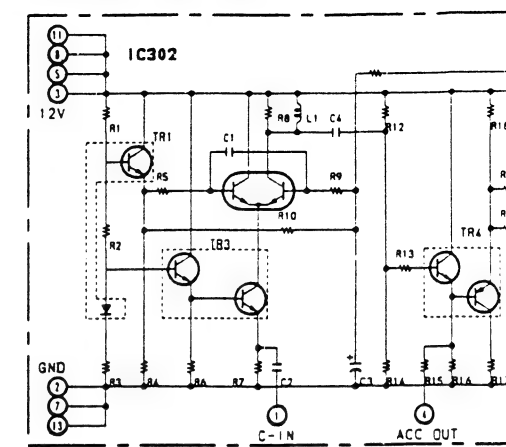
A BOARD IC307 BOM-1



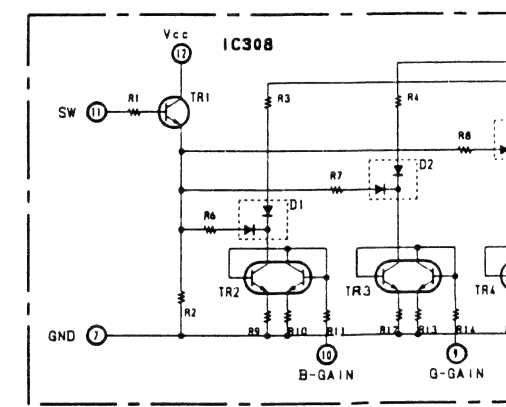
A BOARD IC 503 BX7574



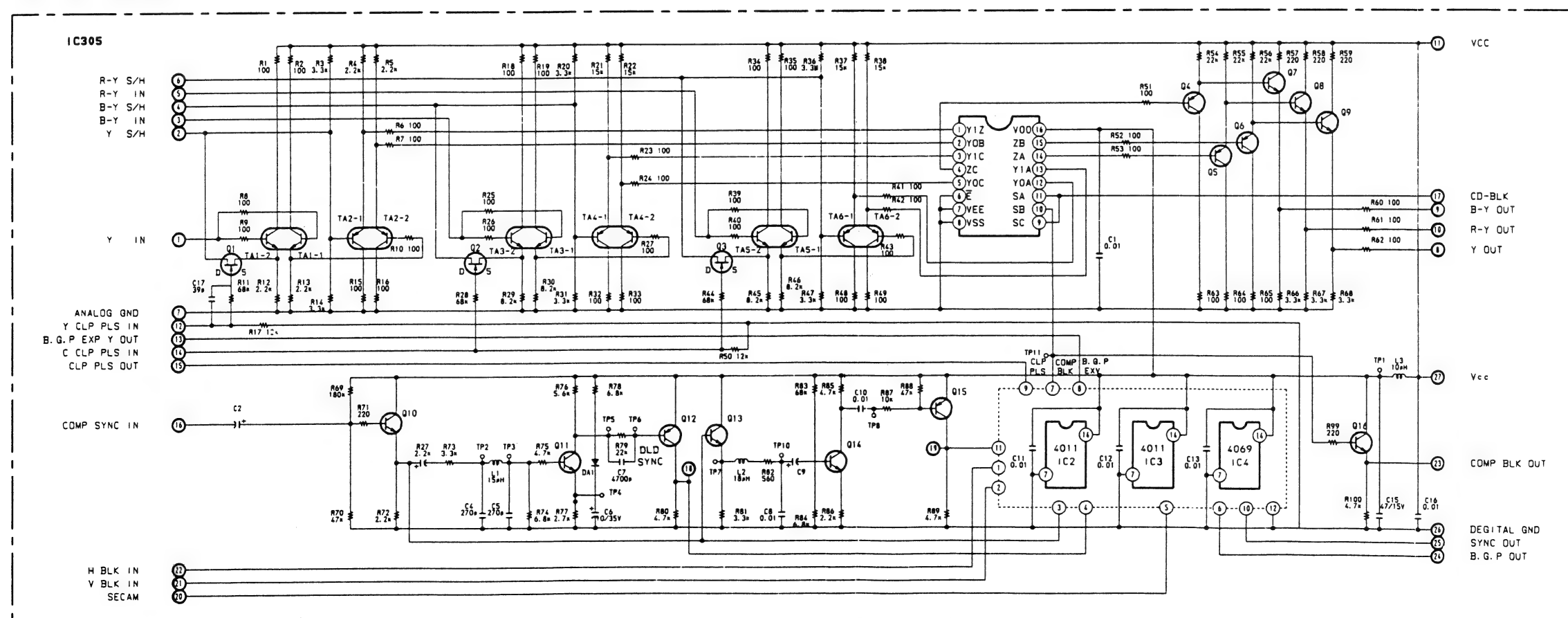
A BOARD IC302 ACC-1



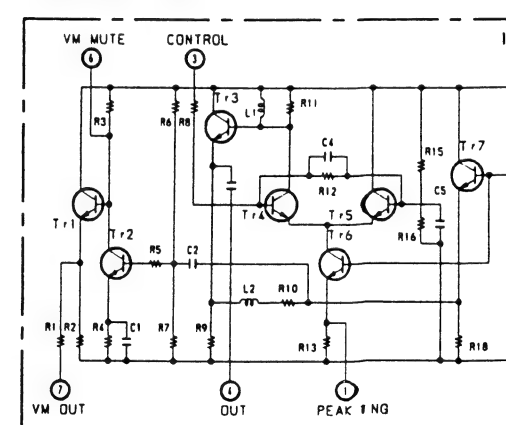
A BOARD IC308 GBM-1

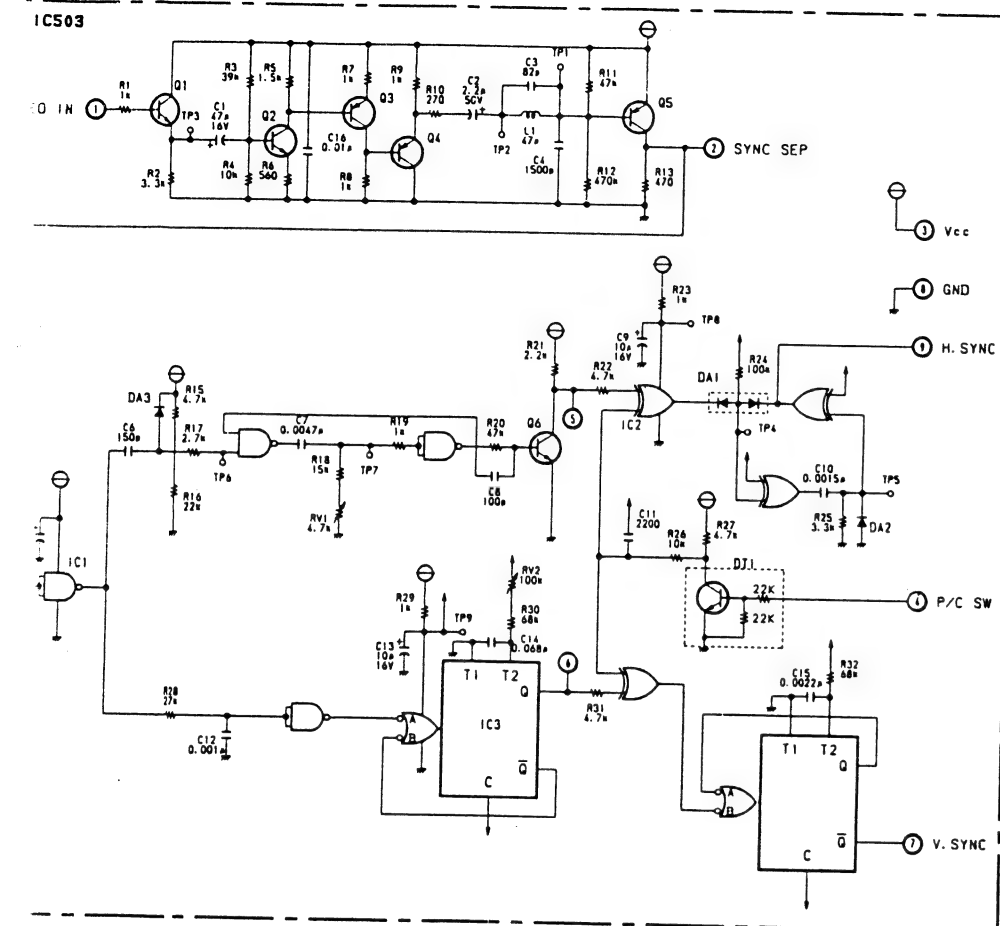


A BOARD IC305 BX-7573

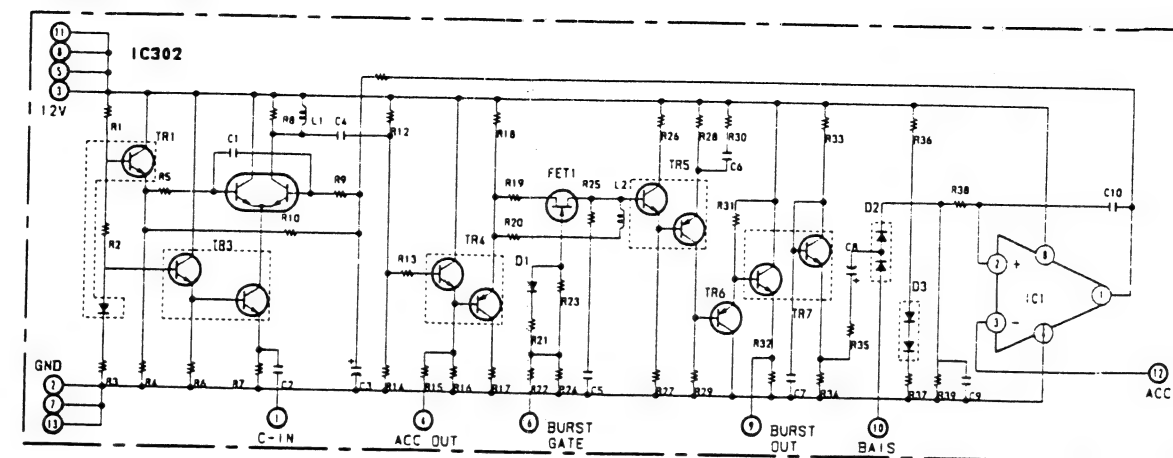


A BOARD IC304

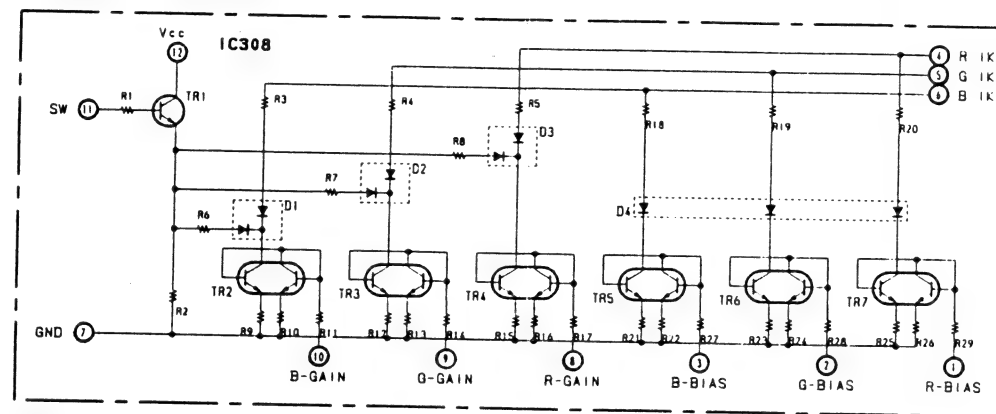




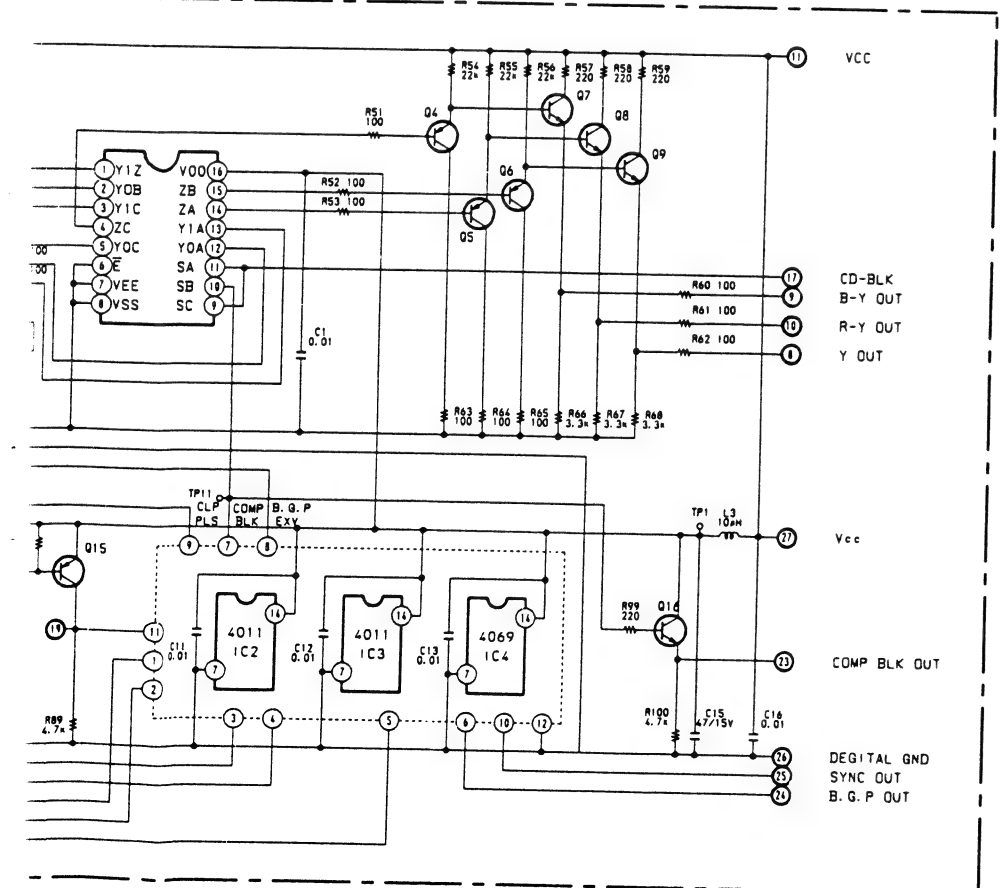
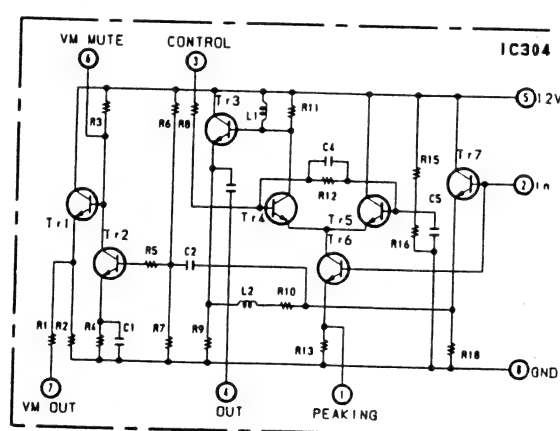
**A BOARD IC302 ACC-1**



A BOARD IC308 GBM-1



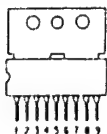
## A BOARD IC304



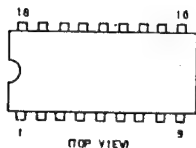
# PVM-2043MD

## 6-6. SEMICONDUCTORS

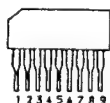
AN5265



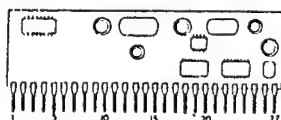
AN5613



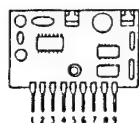
BA236  
NJM2243S



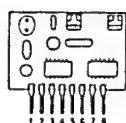
BX7573



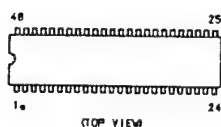
BX7574



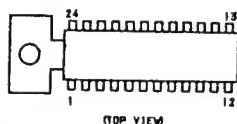
BX7595



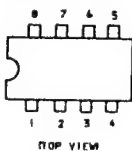
CXA1024S



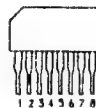
CX175



CX-23025  
IR9431  
APC358C  
APC4558C



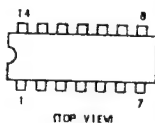
LA7016



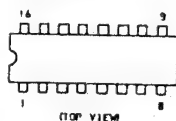
NJM7812B



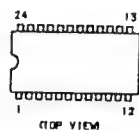
SN74LS09N  
SN74LS11N  
SN74LS136N  
TC4066BP  
APC1394C



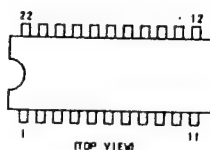
SN74LS138N  
TC4052BP  
TC4053BP  
TC4538BP



TA7193P



APC1377C



DTA124ES  
DTA144ES  
DTC124ES  
DTC144ES



2SA1091  
2SC1890A  
2SC2551



2SA1175  
2SA1175-HFE  
2SC2785  
2SC2785-HFE



2SA1220A  
2SB1134



2SA1220A-P  
2SC2611  
2SC2688  
2SC2690A



2SC3460  
2SB1397



2SC2958  
2SB773-4  
2SB774



2SK105A-30



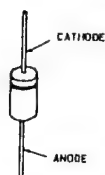
DAN209S



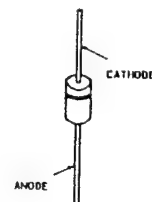
DAP209S



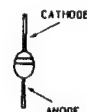
ERB44-06  
ERD28-08S  
GP08DPKG23  
R0110EB  
RGP01-17PKG23  
RGP100T  
RGP15J  
10E2  
10ES-B1  
15S83



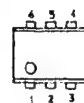
ERC25-06S  
RH-1A  
RH-1Z  
RU2AM  
SIB01-02  
SIB01-04  
SIB01-06



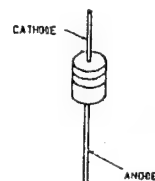
ERC26-15S  
V19E



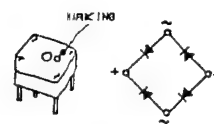
PC111S



R010ES-B1  
R010ES-B3  
R010ES-L3  
R012ES-B2  
R013ES-B2  
R013ES-B3  
R015ES-B2  
R018ES-B2  
R024EBZ7  
R039ES-B4  
R04.3ES-L2  
R05.1EB2  
R05.1ES-B2  
R05.6ES-B2  
R05.6ES-L1  
R06.2ES-B2  
R06.8ES-B2  
R07.5ES-B2  
R08.2ES-B2  
15S148



S3WB60Z





## SECTION 7

### EXPLODED VIEWS

## NOTE:

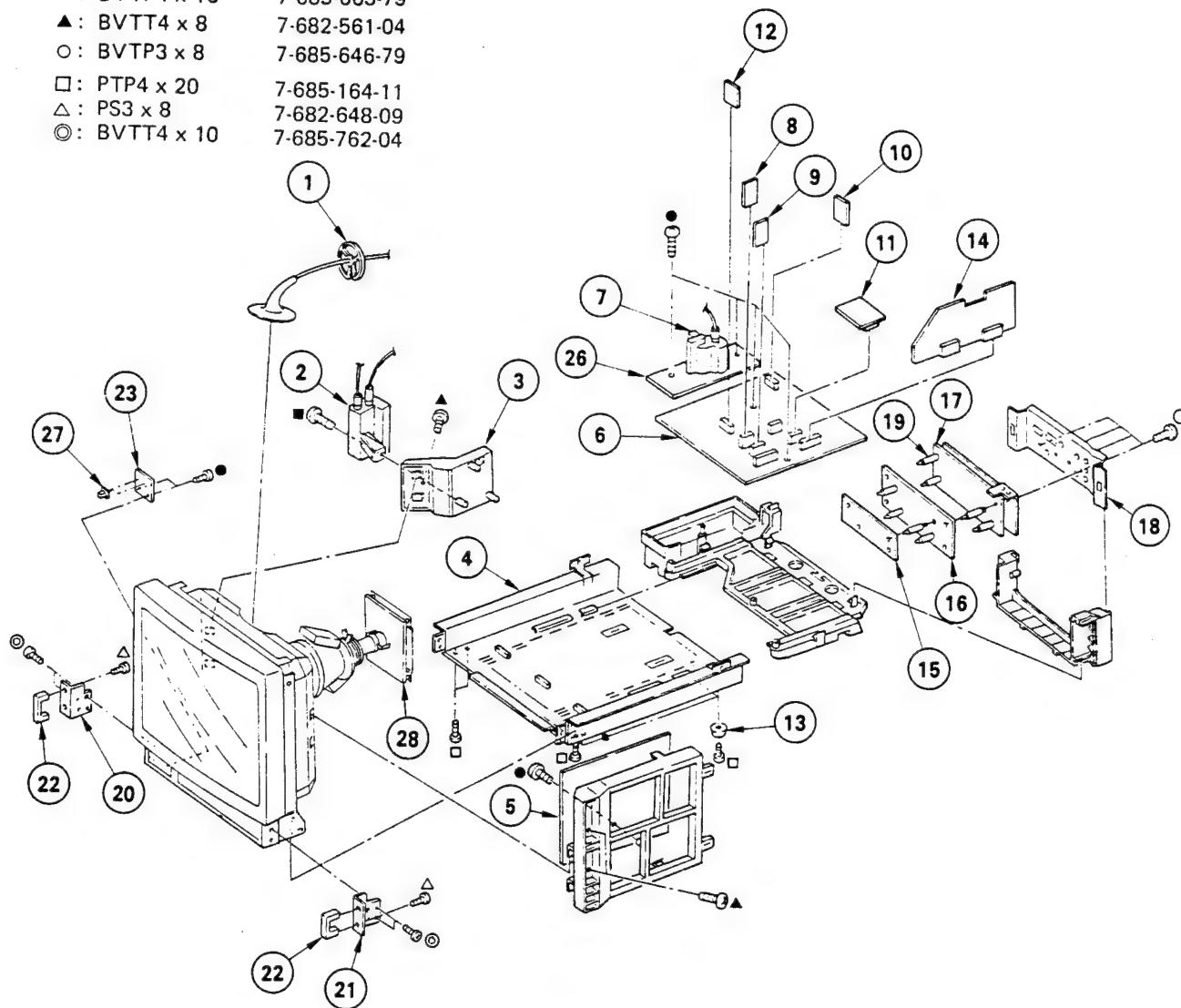
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

**7-1. CHASSIS**

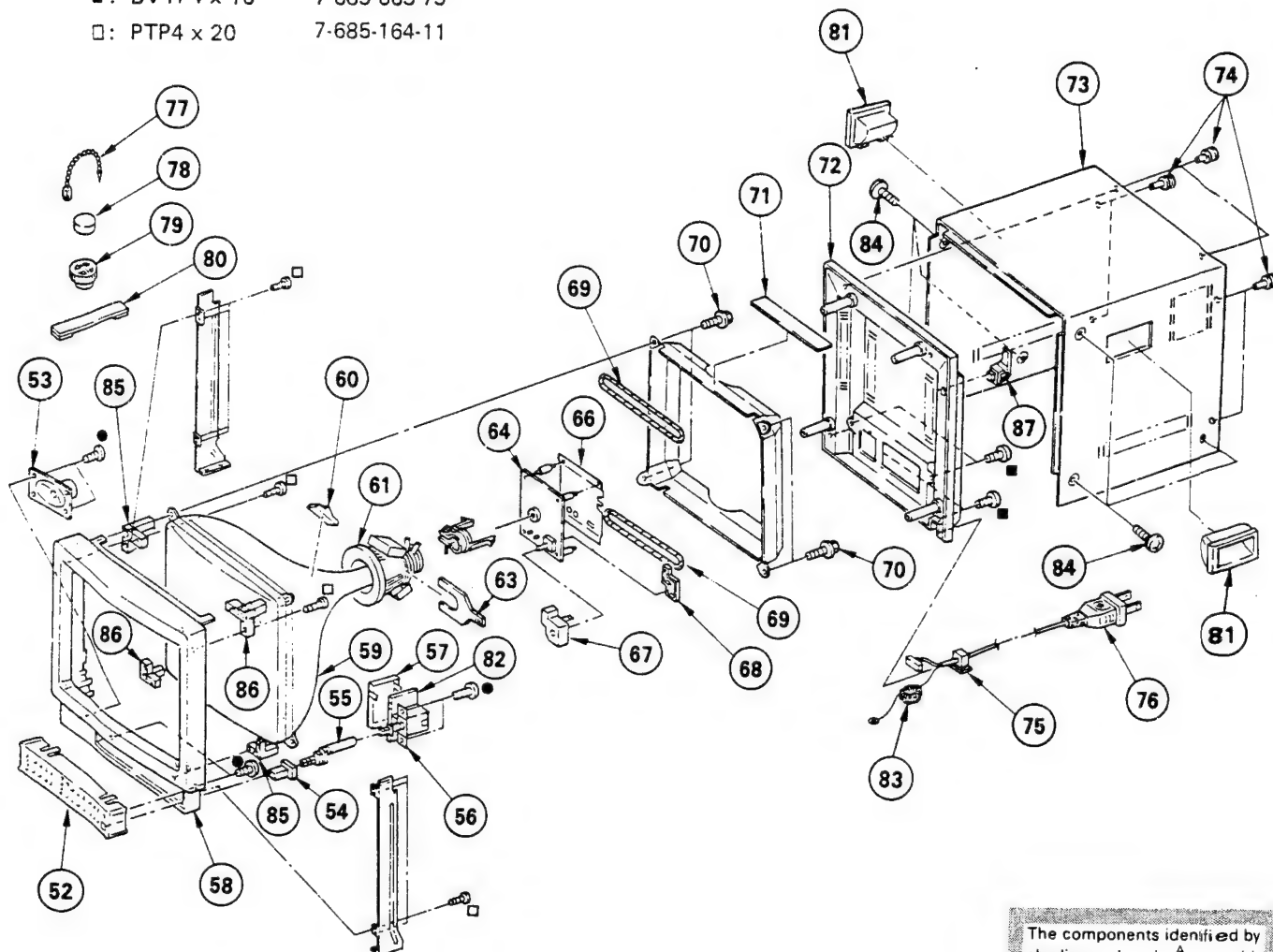
●: BVTP3 x 12	7-685-648-79
■: BVTP4 x 16	7-685-663-79
▲: BVTT4 x 8	7-682-561-04
○: BVTP3 x 8	7-685-646-79
□: PTP4 x 20	7-685-164-11
△: PS3 x 8	7-682-648-09
◎: BVTT4 x 10	7-685-762-04



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*3-704-372-01	HOLDER, HV CABLE		14	*A-1135-613-A	BA BOARD, COMPLETE	
2 $\Delta$	.1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE		15	*A-1270-249-A	QB BOARD, COMPLETE	10-12,26,28
3	*4-391-842-01	BRACKET, HVR		16	*A-1270-248-A	QD BOARD, COMPLETE	
4	X-4391-818-1	CABINET ASSY, BOTTOM		17	*A-1270-247-A	QC BOARD, COMPLETE	
5	*A-1245-479-A	FE BOARD, COMPLETE		18	4-391-843-11	PLATE, TERMINAL	
6	*A-1296-593-A	A BOARD, COMPLETE	8,9	19	*3-682-419-01	HOLDER, P.C.B	
7 $\Delta$	.1-439-468-11	TRANSFORMER ASSY, FLYBACK (NX-2310)		20	*4-386-808-11	BRACKET (LEFT), HANDLE	
8	*1-629-149-11	W BOARD		21	*4-386-807-21	BRACKET (RIGHT), HANDLE	
9	*1-629-151-11	XA BOARD		22	4-382-597-91	HANDLE	
10	*1-632-006-11	Y BOARD		23	*1-632-005-11	H BOARD	
11	*1-632-004-11	V BOARD		26	*1-632-002-11	P BOARD	
12	*1-632-007-11	T BOARD		27	4-374-839-01	BUTTON (A)	
13	4-901-947-01	LEG		28	*A-1331-036-A	C BOARD, COMPLETE	

## 7-2. PICTURE TUBE

- : BVTP3 x 12      7-685-648-79
- : BVTP4 x 16      7-685-663-79
- : PTP4 x 20      7-685-164-11



The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
52	1-466-076-21	CONTROL UNIT		72	4-393-309-11	COVER, REAR	
53	1-544-063-11	SPEAKER		73	4-393-344-01	COVER, TOP	
54	4-374-839-11	BUTTON (A)		74	4-391-825-01	RIVET, NYLON	
55	4-391-824-01	JOINT		75 $\Delta$	*4-364-745-01	BUSHING, AC CORD	
56 $\Delta$	1-554-967-12	SWITCH, PUSH (AC POWER) (1 KEY)		76 $\Delta$	1-574-389-12	CORD, POWER (WITH CONNECTOR)	
57	*4-391-820-01	COVER, AC SWITCH		77	4-308-870-00	CLIP, LEAD WIRE	
58	X-4391-814-1	BEZEL ASSY		78	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
59 $\Delta$	8-736-122-05	PICTURE TUBE (M49KGH21X)		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
60	3-703-961-01	SPACER, DY		80	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
61 $\Delta$	1-451-349-11	DEFLECTION YOKE (Y20FZA)		81	*4-353-706-00	HANDLE	
63	1-452-277-00	MAGNET, BMC		82	*1-629-153-11	J BOARD	
64	*A-1331-036-A	C BOARD, COMPLETE		83	1-543-604-11	CORE, RING	
66	*4-391-835-01	PLATE (C), SHIELD		84	4-847-802-11	SCREW (OS), CASE, CLAW	
67	*4-379-167-01	COVER (MAIN), CV		85	4-393-334-01	BRACKET (B), PICTURE TUBE	
68	*4-379-160-01	COVER (REAR LID), CV		86	4-393-333-01	BRACKET (A), PICTURE TUBE	
69 $\Delta$	1-426-450-11	COIL, DEMAGNETIZATION		87	4-329-439-00	CLAMPER, FEEDER	
70	4-307-249-00	SCREW (5), TAPPING					
71	*3-836-656-01	CUSHION (D)					





# SECTION 8

## ELECTRICAL PARTS LIST

**BA**

## NOTE:

The components identified by shading and mark **Δ** are critical for safety.

Replace only with part number specified.

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

All resistors are in ohms  
F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

MF :  $\mu$ F, PF :  $\mu$ F

## COILS

MMH : mH, UH :  $\mu$ H

The components identified by **Δ** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-613-A	BA BOARD, COMPLETE *****		C272	1-101-002-00	CERAMIC 0.0022MF	50V
		<CONNECTOR>		C273	1-101-002-00	CERAMIC 0.0022MF	50V
BA1	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C280	1-108-624-11	MYLAR 0.0068MF 10%	100V
BA2	*1-565-491-11	CONNECTOR, BOARD TO BOARD 15P		C281	1-126-101-11	ELECT 100MF 20%	16V
		<FILTER>		C292	1-101-004-00	CERAMIC 0.01MF	50V
BPF243	1-236-363-11	FILTER, BAND PASS		C401	1-123-875-11	ELECT 10MF 20%	50V
BPF244	1-236-364-11	FILTER, BAND PASS		C402	1-101-888-00	CERAMIC 68PF 5%	50V
		<CAPACITOR>		C403	1-102-116-00	CERAMIC 680PF 10%	50V
C201	1-124-120-11	ELECT 220MF 20%	16V	C404	1-136-161-00	FILM 0.047MF 5%	50V
C202	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C405	1-102-074-00	CERAMIC 0.001MF 10%	50V
C203	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C406	1-124-477-11	ELECT 47MF 20%	16V
C207	1-124-477-11	ELECT 47MF 20%	16V	C407	1-101-890-00	CERAMIC 75PF 5%	50V
C208	1-124-477-11	ELECT 47MF 20%	16V	C408	1-102-961-00	CERAMIC 27PF 5%	50V
C209	1-124-477-11	ELECT 47MF 20%	16V	C409	1-136-165-00	FILM 0.1MF 5%	50V
C210	1-124-477-11	ELECT 47MF 20%	16V	C410	1-136-165-00	FILM 0.1MF 5%	50V
C211	1-124-477-11	ELECT 47MF 20%	16V	C411	1-136-165-00	FILM 0.1MF 5%	50V
C212	1-124-477-11	ELECT 47MF 20%	16V	C412	1-102-129-00	CERAMIC 0.01MF 10%	50V
C213	1-124-477-11	ELECT 47MF 20%	16V	C413	1-124-499-11	ELECT 1MF 20%	50V
C214	1-101-004-00	CERAMIC 0.01MF	50V	C414	1-136-173-00	FILM 0.47MF 5%	50V
C221	1-124-902-00	ELECT 0.47MF 20%	50V	C415	1-123-875-11	ELECT 10MF 20%	50V
C222	1-124-464-11	ELECT 0.22MF 20%	50V	C416	1-102-118-00	CERAMIC 0.0012MF 10%	50V
C223	1-102-963-00	CERAMIC 33PF 5%	50V	C417	1-124-477-11	ELECT 47MF 20%	16V
C224	1-101-888-00	CERAMIC 68PF 5%	50V	C418	1-124-499-11	ELECT 1MF 20%	50V
C230	1-124-120-11	ELECT 220MF 20%	16V	C419	1-126-101-11	ELECT 100MF 20%	16V
C240	1-101-004-00	CERAMIC 0.01MF	50V	C420	1-136-165-00	FILM 0.1MF 5%	50V
C241	1-124-120-11	ELECT 220MF 20%	16V	C421	1-102-961-00	CERAMIC 27PF 5%	50V
C242	1-126-101-11	ELECT 100MF 20%	16V	C422	1-136-165-00	FILM 0.1MF 5%	50V
C243	1-124-120-11	ELECT 220MF 20%	16V	C423	1-123-875-11	ELECT 10MF 20%	50V
C245	1-101-004-00	CERAMIC 0.01MF	50V	C424	1-136-165-00	FILM 0.1MF 5%	50V
C246	1-123-875-11	ELECT 10MF 20%	50V	C425	1-101-361-00	CERAMIC 150PF 5%	50V
C247	1-101-004-00	CERAMIC 0.01MF	50V	C426	1-101-890-00	CERAMIC 75PF 5%	50V
C248	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C427	1-124-120-11	ELECT 220MF 20%	16V
C250	1-161-021-11	CERAMIC 0.047MF 10%	25V	C428	1-124-477-11	ELECT 47MF 20%	16V
C251	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C429	1-124-477-11	ELECT 47MF 20%	16V
C252	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C430	1-101-004-00	CERAMIC 0.01MF	50V
C253	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C431	1-101-884-00	CERAMIC 56PF 5%	50V
C254	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C432	1-101-004-00	CERAMIC 0.01MF	50V
C255	1-101-004-00	CERAMIC 0.01MF	50V	C433	1-126-101-11	ELECT 100MF 20%	16V
C265	1-102-978-00	CERAMIC 220PF 5%	50V	C434	1-101-884-00	CERAMIC 56PF 5%	50V
C266	1-101-003-00	CERAMIC 0.0047MF	50V	C435	1-101-884-00	CERAMIC 56PF 5%	50V
C267	1-126-101-11	ELECT 100MF 20%	16V	C441	1-102-963-00	CERAMIC 33PF 5%	50V
C268	1-101-003-00	CERAMIC 0.0047MF	50V	C442	1-161-021-11	CERAMIC 0.047MF 10%	25V
C269	1-102-978-00	CERAMIC 220PF 5%	50V			<FILTER BLOCK>	
C271	1-101-004-00	CERAMIC 0.01MF	50V	CFM201	1-464-880-11	FILTER BLOCK, COM (CFB-2)	
						<MODULE>	
				CTR210	1-236-366-11	MODULE, TRAP	
				CTR211	1-236-365-11	MODULE, TRAP	

# PVM-2043MD

BA

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
PCM290	1-808-628-11	MODULE, PHASE PHM-1		Q264	8-729-119-76	TRANSISTOR 2SA1175-HFE	
SEP270	1-808-654-11	MODULE		Q265	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<DIODE>				Q280	8-729-900-89	TRANSISTOR DTC144ES	
D210	8-719-911-19	DIODE 1SS119		Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D211	8-719-911-19	DIODE 1SS119		Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D212	8-719-911-19	DIODE 1SS119		Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D240	8-719-110-16	DIODE RD10ES-B1		Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D280	8-719-911-19	DIODE 1SS119		Q405	8-729-900-63	TRANSISTOR DTA124ES	
D401	8-719-911-19	DIODE 1SS119		Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D402	8-719-911-19	DIODE 1SS119		Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<DELAY LINE>				Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
DL230	1-415-632-11	DELAY LINE, Y		Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<IC>				Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
FPG280	8-749-920-73	IC BX7595		Q411	8-729-119-76	TRANSISTOR 2SA1175-HFE	
IC201	8-759-800-81	IC LA7016		<RESISTOR>			
IC210	8-759-240-53	IC TC4053BP		R201	1-249-435-11	CARBON 33K 5%	1/4W
IC250	8-759-800-81	IC LA7016		R202	1-249-435-11	CARBON 33K 5%	1/4W
IC260	8-759-208-14	IC TC4066BPHB		R203	1-249-405-11	CARBON 100 5%	1/4W
IC261	8-759-208-14	IC TC4066BPHB		R204	1-249-421-11	CARBON 2.2K 5%	1/4W
IC401	8-751-750-00	IC CX175		R205	1-249-433-11	CARBON 22K 5%	1/4W
<COIL>				R206	1-249-432-11	CARBON 18K 5%	1/4W
L280	1-410-509-11	INDUCTOR 10UH		R207	1-249-409-11	CARBON 220 5%	1/4W
L281	1-410-478-11	INDUCTOR 47UH		R208	1-249-411-11	CARBON 330 5%	1/4W
L282	1-410-470-11	INDUCTOR 10UH		R209	1-215-894-11	METAL OXIDE 2.2K 5%	2W F
L401	1-410-087-31	INDUCTOR 10MMH		R210	1-249-437-11	CARBON 47K 5%	1/4W
L402	1-408-411-00	INDUCTOR 15UH		R211	1-249-437-11	CARBON 47K 5%	1/4W
L403	1-404-496-00	COIL		R212	1-249-437-11	CARBON 47K 5%	1/4W
L404	1-408-411-00	INDUCTOR 15UH		R213	1-249-429-11	CARBON 10K 5%	1/4W
L405	1-404-496-00	COIL		R214	1-249-433-11	CARBON 22K 5%	1/4W
L406	1-410-470-11	INDUCTOR 10UH		R215	1-249-437-11	CARBON 47K 5%	1/4W
L408	1-410-336-11	INDUCTOR 220UH		R216	1-249-429-11	CARBON 10K 5%	1/4W
<TRANSISTOR>				R217	1-249-429-11	CARBON 10K 5%	1/4W
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE		R218	1-249-425-11	CARBON 4.7K 5%	1/4W
Q210	8-729-119-78	TRANSISTOR 2SC2785-HFE		R219	1-249-405-11	CARBON 100 5%	1/4W
Q211	8-729-119-76	TRANSISTOR 2SA1175-HFE		R220	1-249-428-11	CARBON 8.2K 5%	1/4W
Q212	8-729-900-89	TRANSISTOR DTC144ES		R221	1-249-423-11	CARBON 3.3K 5%	1/4W
Q213	8-729-900-89	TRANSISTOR DTC144ES		R222	1-249-439-11	CARBON 68K 5%	1/4W
Q214	8-729-119-78	TRANSISTOR 2SC2785-HFE		R224	1-249-439-11	CARBON 68K 5%	1/4W
Q221	8-729-900-89	TRANSISTOR DTC144ES		R225	1-249-439-11	CARBON 68K 5%	1/4W
Q222	8-729-900-63	TRANSISTOR DTA124ES		R226	1-249-439-11	CARBON 68K 5%	1/4W
Q230	8-729-119-78	TRANSISTOR 2SC2785-HFE		R227	1-249-386-11	CARBON 2.7 5%	1/4W F
Q231	8-729-119-78	TRANSISTOR 2SC2785-HFE		R228	1-249-433-11	CARBON 22K 5%	1/4W
Q232	8-729-119-78	TRANSISTOR 2SC2785-HFE		R229	1-249-433-11	CARBON 22K 5%	1/4W
Q233	8-729-119-76	TRANSISTOR 2SA1175-HFE		R230	1-249-429-11	CARBON 10K 5%	1/4W
Q234	8-729-119-78	TRANSISTOR 2SC2785-HFE		R231	1-249-422-11	CARBON 2.7K 5%	1/4W
Q240	8-729-140-96	TRANSISTOR 2SD774-34		R232	1-249-415-11	CARBON 680 5%	1/4W
Q241	8-729-119-78	TRANSISTOR 2SC2785-HFE		R233	1-249-415-11	CARBON 680 5%	1/4W
Q242	8-729-119-78	TRANSISTOR 2SC2785-HFE		R234	1-249-411-11	CARBON 330 5%	1/4W
Q243	8-729-119-78	TRANSISTOR 2SC2785-HFE		R235	1-249-416-11	CARBON 820 5%	1/4W
Q258	8-729-119-78	TRANSISTOR 2SC2785-HFE		R236	1-249-411-11	CARBON 330 5%	1/4W
Q259	8-729-119-78	TRANSISTOR 2SC2785-HFE		R237	1-249-411-11	CARBON 330 5%	1/4W
Q260	8-729-900-89	TRANSISTOR DTC144ES		R238	1-249-405-11	CARBON 100 5%	1/4W
Q261	8-729-119-78	TRANSISTOR 2SC2785-HFE		R239	1-249-417-11	CARBON 1K 5%	1/4W
Q262	8-729-119-78	TRANSISTOR 2SC2785-HFE		R240	1-249-407-11	CARBON 150 5%	1/4W
Q263	8-729-119-78	TRANSISTOR 2SC2785-HFE		R241	1-247-895-00	CARBON 470K 5%	1/4W
				R242	1-249-421-11	CARBON 2.2K 5%	1/4W
				R243	1-249-435-11	CARBON 33K 5%	1/4W
				R244	1-249-435-11	CARBON 33K 5%	1/4W
				R245	1-249-422-11	CARBON 2.7K 5%	1/4W
				R246	1-249-435-11	CARBON 33K 5%	1/4W
				R247	1-249-435-11	CARBON 33K 5%	1/4W
				R248	1-249-422-11	CARBON 2.7K 5%	1/4W



# PVM-2043MD

C

P

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C715	1-102-116-00	CERAMIC 680PF	10% 50V	R708	1-249-418-11	CARBON 1.2K 5% 1/4W	
C716	1-102-116-00	CERAMIC 680PF	10% 50V	R709	1-249-418-11	CARBON 1.2K 5% 1/4W	
C717	1-162-599-12	CERAMIC 0.0047MF	20% 400V	R710	1-249-402-11	CARBON 56 5% 1/4W	
C722	1-162-622-11	CERAMIC 330PF	10% 6.3KV	R711	1-249-405-11	CARBON 100 5% 1/4W	
C724	1-124-667-11	ELECT 10MF	20% 100V	R712	1-249-402-11	CARBON 56 5% 1/4W	
C726	1-123-946-00	ELECT 4.7MF	20% 250V	R715	1-202-818-00	SOLID 1K 10% 1/2W	
C733	1-162-318-11	CERAMIC 0.001MF	10% 500V	R716	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
<DIODE>				R717	1-202-818-00	SOLID 1K 10% 1/2W	
D701	8-719-911-19	DIODE ISS119		R718	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
D702	8-719-911-19	DIODE ISS119		R719	1-202-818-00	SOLID 1K 10% 1/2W	
D703	8-719-911-19	DIODE ISS119		R720	1-216-486-00	METAL OXIDE 8.2K 5% 3W F	
D704	8-719-911-19	DIODE ISS119		R721	1-216-397-11	METAL OXIDE 4.7 5% 3W F	
D705	8-719-911-19	DIODE ISS119		R722	1-202-842-11	SOLID 220K 10% 1/2W	
D706	8-719-911-19	DIODE ISS119		R723	1-202-838-00	SOLID 100K 10% 1/2W	
D707	8-729-901-83	DIODE ISS83		R724	1-202-842-11	SOLID 220K 10% 1/2W	
D708	8-729-901-83	DIODE ISS83		R725	1-202-838-00	SOLID 100K 10% 1/2W	
D709	8-729-901-83	DIODE ISS83		R726	1-202-846-00	SOLID 470K 10% 1/2W	
D713	8-729-901-83	DIODE ISS83		R727	1-202-842-11	SOLID 220K 10% 1/2W	
D715	8-729-901-83	DIODE ISS83		R728	1-202-837-00	SOLID 82K 10% 1/2W	
D716	8-729-901-83	DIODE ISS83		R729	1-202-549-00	SOLID 100 10% 1/2W	
D717	8-729-901-83	DIODE ISS83		R730	1-202-842-11	SOLID 220K 10% 1/2W	
<FILTER>				R731	1-249-409-11	CARBON 220 5% 1/4W	
FL701	1-236-388-11	FILTER, EMI		R732	1-249-409-11	CARBON 220 5% 1/4W	
FL702	1-236-388-11	FILTER, EMI		R733	1-249-409-11	CARBON 220 5% 1/4W	
FL703	1-236-388-11	FILTER, EMI		R734	1-249-409-11	CARBON 220 5% 1/4W F	
<COIL>				R735	1-249-409-11	CARBON 220 5% 1/4W F	
L701	1-408-121-00	INDUCTOR 22UH		R736	1-249-409-11	CARBON 220 5% 1/4W F	
L702	1-408-414-00	INDUCTOR 27UH		R737	1-249-405-11	CARBON 100 5% 1/4W	
L703	1-410-476-11	INDUCTOR 33UH		R738	1-249-405-11	CARBON 100 5% 1/4W	
L704	1-408-414-00	INDUCTOR 27UH		R739	1-249-405-11	CARBON 100 5% 1/4W	
<TRANSISTOR>				R740	1-249-433-11	CARBON 22K 5% 1/4W F	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		R741	1-249-433-11	CARBON 22K 5% 1/4W F	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		R742	1-249-433-11	CARBON 22K 5% 1/4W F	
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE		R743	1-249-441-11	CARBON 100K 5% 1/4W	
Q704	8-729-200-17	TRANSISTOR 2SA1091		R744	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q705	8-729-200-17	TRANSISTOR 2SA1091		R745	1-249-429-11	CARBON 10K 5% 1/4W	
Q706	8-729-200-17	TRANSISTOR 2SA1091		R746	1-215-902-11	METAL OXIDE 47K 5% 1W F	
Q707	8-729-326-11	TRANSISTOR 2SC2611		R747	1-247-725-11	CARBON 10K 5% 1/4W F	
Q708	8-729-326-11	TRANSISTOR 2SC2611		R748	1-247-713-11	CARBON 1K 5% 1/4W F	
Q709	8-729-326-11	TRANSISTOR 2SC2611		R749	1-215-902-11	METAL OXIDE 47K 5% 2W F	
Q710	8-729-200-17	TRANSISTOR 2SA1091		R750	1-215-905-11	METAL OXIDE 10 5% 3W F	
Q711	8-729-200-17	TRANSISTOR 2SA1091		R751	1-247-887-00	CARBON 220K 5% 1/4W	
Q712	8-729-200-17	TRANSISTOR 2SA1091		R752	1-247-887-00	CARBON 220K 5% 1/4W	
Q713	8-729-255-12	TRANSISTOR 2SC2551		R753	1-247-887-00	CARBON 220K 5% 1/4W	
Q714	8-729-255-12	TRANSISTOR 2SC2551		<VARIABLE RESISTOR>			
Q715	8-729-178-55	TRANSISTOR 2SC2785-E		RV708	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
Q716	8-729-178-55	TRANSISTOR 2SC2785-E		RV709	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
Q717	8-729-178-55	TRANSISTOR 2SC2785-E		*****			
<RESISTOR>				*1-632-002-11	P BOARD		
R702	1-247-887-00	CARBON 220K 5% 1/4W			*****		
R704	1-249-410-11	CARBON 270 5% 1/4W		*4-341-751-01	EYELET (EY5,EY6,EY7,EY8,EY9,EY10,EY11,EY12,EY13)		
R705	1-249-410-11	CARBON 270 5% 1/4W		*4-341-752-01	EYELET (EY1,EY2,EY3,EY4)		
R706	1-249-410-11	CARBON 270 5% 1/4W		<CAPACITOR>			
R707	1-249-418-11	CARBON 1.2K 5% 1/4W		C901	1-162-114-00	CERAMIC 0.0047MF	20V
				C902	1-102-212-00	CERAMIC 820PF	10% 50V
				C903	1-124-931-11	ELECT 47MF	20% 10V
				C904	1-108-693-11	MYLAR 0.012MF	10% 20V
				C905	1-108-700-11	MYLAR 0.047MF	10% 20V

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

PVM-2043MD

P

Y

T

REF.NO.	PART NO.	DESCRIPTION	REMARK
C906	1-106-389-00	MYLAR 0.082MF 10% 200V	
C907	1-123-935-00	ELECT 33MF 20% 160V	
C908	1-123-948-00	ELECT 22MF 20% 250V	
C909	1-126-101-11	ELECT 100MF 20% 16V	
C910	1-124-120-11	ELECT 220MF 20% 16V	
C911	1-126-101-11	ELECT 100MF 20% 16V	

<DIODE>

D901	8-719-300-65	DIODE ES1F
D902	8-719-300-76	DIODE RH-1A
D903	8-719-200-02	DIODE 10E2
D904	8-719-110-31	DIODE RD12ES-B2
D905	8-719-911-19	DIODE 1SS119

D906	8-719-110-18	DIODE RD10ES-B3
D907	8-719-911-19	DIODE 1SS119

<COIL>

L901	1-408-072-00	INDUCTOR 47UH
L902 $\Delta$	1-459-407-11	COIL, FERRITE CHOKE
L903	1-459-104-00	COIL, DUST CORE
L904 $\Delta$	1-459-106-11	COIL, DUST CORE

<NEON LAMP>

NL901	1-519-108-99	LAMP, NEON
-------	--------------	------------

<CONNECTOR>

P1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P
P2	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P
P3	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
P4	*1-564-507-11	PLUG, CONNECTOR 4P
P5	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
P7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P

<TRANSISTOR>

Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q902	8-729-140-96	TRANSISTOR 2SD774-34

<RESISTOR>

R901	1-215-892-11	METAL OXIDE 1K 5% 2W F
R902	1-216-445-11	METAL OXIDE 12 5% 2W F
R903	1-249-448-11	CARBON 1.2 5% 1/4W F
R904	1-247-692-11	CARBON 22 5% 1/4W F
R905	1-216-425-11	METAL OXIDE 56 5% 1W F
R906	1-249-441-11	CARBON 100K 5% 1/4W
R907	1-249-405-11	CARBON 100 5% 1/4W
R908	1-249-429-11	CARBON 10K 5% 1/4W
R909	1-249-429-11	CARBON 10K 5% 1/4W
R910	1-249-429-11	CARBON 10K 5% 1/4W
R911	1-249-429-11	CARBON 10K 5% 1/4W

<RELAY>

RY901	1-515-601-11	RELAY
-------	--------------	-------

<TRANSFORMER>

T901 $\Delta$	1-439-468-11	TRANSFORMER ASSY, FLYBACK (NX-2310)
---------------	--------------	-------------------------------------

REF.NO.	PART NO.	DESCRIPTION	REMARK
T902	1-413-059-00	TRANSFORMER, FERRITE (DFT)	
T903 $\Delta$	1-460-017-11	TRANSFORMER	

\*\*\*\*\*

\*1-632-006-11 Y BOARD  
\*\*\*\*\*

<CAPACITOR>

C1500	1-124-499-11	ELECT 1MF 20% 50V
C1501	1-102-125-00	CERAMIC 0.0047MF 10% 50V

<IC>

IC1500	8-759-909-70	IC CX23025
--------	--------------	------------

<TRANSISTOR>

Q1500	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1501	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1502	8-729-900-63	TRANSISTOR DTA124ES

<RESISTOR>

R1500	1-249-437-11	CARBON 47K 5% 1/4W
R1501	1-249-437-11	CARBON 47K 5% 1/4W
R1502	1-249-437-11	CARBON 47K 5% 1/4W F
R1503	1-249-429-11	CARBON 10K 5% 1/4W
R1504	1-249-437-11	CARBON 47K 5% 1/4W
R1505	1-249-437-11	CARBON 47K 5% 1/4W

<CONNECTOR>

Y1	*1-565-481-11	CONNECTOR, BOARD TO BOARD 5P
----	---------------	------------------------------

\*\*\*\*\*

\*1-632-007-11 T BOARD  
\*\*\*\*\*

\*1-564-505-11 PLUG, CONNECTOR 2P  
\*1-564-508-11 PLUG, CONNECTOR 5P  
\*1-565-483-11 CONNECTOR, BOARD TO BOARD 7P

<CAPACITOR>

C1601	1-126-101-11	ELECT 100MF 20% 16V
C1602	1-101-004-00	CERAMIC 0.01MF 50V
C1603	1-102-951-00	CERAMIC 15PF 5% 50V

<DIODE>

D1601	8-719-911-19	DIODE 1SS119
D1602	8-719-911-19	DIODE 1SS119
D1603	8-719-911-19	DIODE 1SS119
D1604	8-719-911-19	DIODE 1SS119
D1605	8-719-911-19	DIODE 1SS119

<FILTER>

FL1601	1-236-547-11	TRAP, LC
--------	--------------	----------

<COIL>

L1601	1-410-482-31	INDUCTOR 100UH
-------	--------------	----------------

# PVM-2043MD



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1700	1-249-422-11	CARBON 2.7K 5%	1/4W
Q1602	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1701	1-249-425-11	CARBON 4.7K 5%	1/4W
Q1603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1702	1-249-417-11	CARBON 1K 5%	1/4W
Q1604	8-729-900-89	TRANSISTOR DTC144ES		R1703	1-249-422-11	CARBON 2.7K 5%	1/4W
<RESISTOR>				R1704	1-249-417-11	CARBON 1K 5%	1/4W
R1601	1-249-417-11	CARBON 1K 5%	1/4W	R1705	1-249-441-11	CARBON 100K 5%	1/4W
R1602	1-249-415-11	CARBON 680 5%	1/4W	R1706	1-249-441-11	CARBON 100K 5%	1/4W
R1603	1-249-415-11	CARBON 680 5%	1/4W	R1707	1-249-441-11	CARBON 100K 5%	1/4W
R1604	1-249-434-11	CARBON 27K 5%	1/4W	R1708	1-249-441-11	CARBON 100K 5%	1/4W
R1605	1-249-415-11	CARBON 680 5%	1/4W	R1709	1-249-429-11	CARBON 10K 5%	1/4W
R1606	1-249-433-11	CARBON 22K 5%	1/4W	R1710	1-249-438-11	CARBON 56K 5%	1/4W
R1607	1-249-433-11	CARBON 22K 5%	1/4W	R1711	1-249-429-11	CARBON 10K 5%	1/4W
R1608	1-249-433-11	CARBON 22K 5%	1/4W	R1712	1-249-429-11	CARBON 10K 5%	1/4W
R1609	1-249-437-11	CARBON 47K 5%	1/4W	R1713	1-249-429-11	CARBON 10K 5%	1/4W
*****				R1714	1-249-429-11	CARBON 10K 5%	1/4W
*1-632-004-11 V BOARD				R1715	1-249-429-11	CARBON 10K 5%	1/4W
*****				R1716	1-249-438-11	CARBON 56K 5%	1/4W
<CAPACITOR>				R1717	1-249-429-11	CARBON 10K 5%	1/4W
C1700	1-124-120-11	ELECT 220MF 20% 16V		R1718	1-249-429-11	CARBON 10K 5%	1/4W
C1701	1-101-004-00	CERAMIC 0.01MF 50V		R1719	1-249-417-11	CARBON 1K 5%	1/4W
C1702	1-102-978-00	CERAMIC 220PF 5% 50V		R1720	1-249-429-11	CARBON 10K 5%	1/4W
C1703	1-102-978-00	CERAMIC 220PF 5% 50V		R1721	1-249-429-11	CARBON 10K 5%	1/4W
C1705	1-124-499-11	ELECT 1MF 20% 50V		R1722	1-249-429-11	CARBON 10K 5%	1/4W
C1706	1-124-499-11	ELECT 1MF 20% 50V		R1723	1-249-429-11	CARBON 10K 5%	1/4W
C1707	1-124-120-11	ELECT 220MF 20% 16V		R1724	1-249-429-11	CARBON 10K 5%	1/4W
C1710	1-101-884-00	CERAMIC 56PF 5% 50V		R1725	1-247-891-00	CARBON 330K 5%	1/4W
C1711	1-101-884-00	CERAMIC 56PF 5% 50V		R1726	1-247-891-00	CARBON 330K 5%	1/4W
<DIODE>				R1727	1-249-437-11	CARBON 47K 5%	1/4W
D1700	8-719-911-19	DIODE 1SS119		R1728	1-249-437-11	CARBON 47K 5%	1/4W
D1701	8-729-936-56	DIODE DAN209S		R1729	1-249-405-11	CARBON 100 5%	1/4W
D1702	8-729-936-56	DIODE DAN209S		R1730	1-249-405-11	CARBON 100 5%	1/4W
D1703	8-729-936-56	DIODE DAN209S		R1731	1-249-417-11	CARBON 1K 5%	1/4W
D1704	8-729-936-56	DIODE DAN209S		R1732	1-249-417-11	CARBON 1K 5%	1/4W
D1705	8-719-933-28	DIODE DAP209S		R1733	1-249-409-11	CARBON 220 5%	1/4W
D1706	8-719-933-28	DIODE DAP209S		R1734	1-249-409-11	CARBON 220 5%	1/4W
D1707	8-719-911-19	DIODE 1SS119		R1750	1-249-423-11	CARBON 3.3K 5%	1/4W
D1708	8-719-911-19	DIODE 1SS119		<VARIABLE RESISTOR>			
<TRANSISTOR>				RV1700	1-228-993-00	RES, ADJ, CARBON 4.7K	
Q1700	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1701	1-228-994-00	RES, ADJ, CARBON 10K	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1702	1-228-993-00	RES, ADJ, CARBON 4.7K	
Q1702	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1703	1-228-994-00	RES, ADJ, CARBON 10K	
Q1703	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1704	1-237-524-21	RES, ADJ, CARBON 1M	
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1705	1-228-999-00	RES, ADJ, CARBON 470K	
Q1705	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV1706	1-228-999-00	RES, ADJ, CARBON 470K	
Q1706	8-729-900-89	TRANSISTOR DTC144ES		RV1707	1-228-999-00	RES, ADJ, CARBON 470K	
Q1707	8-729-900-89	TRANSISTOR DTC144ES		RV1708	1-228-995-00	RES, ADJ, CARBON 22K	
Q1708	8-729-115-30	TRANSISTOR 2SK105A-30		RV1709	1-228-995-00	RES, ADJ, CARBON 22K	
Q1709	8-729-115-30	TRANSISTOR 2SK105A-30		RV1710	1-228-995-00	RES, ADJ, CARBON 22K	
Q1710	8-729-119-78	TRANSISTOR 2SC2785-HFE		<CONNECTOR>			
Q1711	8-729-119-78	TRANSISTOR 2SC2785-HFE		V1	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD) 9P	
<RESISTOR>				V2	*1-563-720-11	SOCKET, CONNECTOR (PC BOARD) 9P	
*****				*****			
*A-1245-479-A FE BOARD, COMPLETE				*****			
*****				*****			
*4-341-751-01 EYELET				*****			
*4-341-752-01 EYELET				*****			
4-363-414-00 SPACER, MICA				*****			

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

PVM-2043MC

FE

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				<CONNECTOR>			
C602	$\Delta$ 1-161-830-51	CERAMIC 0.0047MF	500V	F1	*1-568-106-11	PIN, CONNECTOR 7P	
C603	$\Delta$ 1-161-830-51	CERAMIC 0.0047MF	500V	F3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C604	$\Delta$ 1-161-830-51	CERAMIC 0.0047MF	500V	F4	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C605	$\Delta$ 1-161-830-51	CERAMIC 0.0047MF	500V	F5	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C606	1-125-222-41	ELECT (BLOCK) 330MF	20% 400V	F6	*1-506-371-00	PIN, CONNECTOR 2P	
C607	$\Delta$ 1-136-360-51	FILM 0.22MF	20% 250V	F7	*1-568-106-11	PIN, CONNECTOR 7P	
C608	$\Delta$ 1-136-360-51	FILM 0.22MF	20% 250V	<FUSE>			
C611	1-102-973-00	CERAMIC 100PF	5% 50V	F601	$\Delta$ 1-532-350-11	FUSE, TIME-LAG 4A/250V	
C612	1-161-754-00	CERAMIC 0.001MF	10% 3KV		*1-533-189-11	HOLDER, FUSE; F601	
C613	1-123-946-00	ELECT 4.7MF	20% 250V	<IC>			
C614	1-136-067-00	FILM 0.0036MF	3% 2KV	IC601	8-759-100-75	IC UPC1394C	
C615	1-129-765-00	FILM 0.047MF	10% 200V	IC602	8-719-939-00	DIODE PC111S	
C616	1-124-798-11	ELECT 1MF	20% 160V	IC651	8-759-927-49	IC IR9431	
C617	1-124-902-00	ELECT 0.47MF	20% 50V	<COIL>			
C618	1-162-318-11	CERAMIC 0.001MF	10% 500V	L621	1-407-365-00	COIL, CHUKE	
C619	1-123-875-11	ELECT 10MF	20% 50V	L622	1-408-226-00	INDUCTOR 82UH	
C620	1-124-446-11	ELECT 47MF	20% 10V	L623	1-410-397-21	FERRITE BEAD INDUCTOR	
C621	1-130-475-00	FILM 0.0022MF	5% 50V	L624	$\Delta$ 1-410-396-41	FERRITE BEAD INDUCTOR	
C622	1-104-067-00	POLYSTYRENE 390PF	5% 50V	L625	$\Delta$ 1-410-396-41	FERRITE BEAD INDUCTOR	
C623	1-126-233-11	ELECT 22MF	20% 25V	<TRANSISTOR>			
C624	1-162-318-11	CERAMIC 0.001MF	10% 500V	Q611	8-729-119-80	TRANSISTOR 2SC2688-LK	
C625	1-124-463-00	ELECT 0.1MF	20% 50V	Q612	8-729-119-80	TRANSISTOR 2SC2688-LK	
C626	1-161-973-00	CERAMIC 220PF	10% 400V	Q613	8-729-802-14	TRANSISTOR 2SC3460	
C627	1-136-066-00	FILM 0.003MF	3% 2KV	Q614	8-729-119-80	TRANSISTOR 2SC2688-LK	
C631	1-162-116-00	CERAMIC 680PF	10% 2KV	Q615	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C633	1-162-131-11	CERAMIC 220PF	10% 2KV	Q617	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C651	1-125-494-11	ELECT (BLOCK) 560MF	20% 160V	<RESISTOR>			
C654	1-102-030-00	CERAMIC 330PF	10% 500V	R601	$\Delta$ 1-205-712-11	WIREWOUND 3.9 5% 20W F	
C656	1-102-030-00	CERAMIC 330PF	10% 500V	R602	$\Delta$ 1-214-945-21	METAL 2.2M 1% 1/2W	
C657	1-161-973-00	CERAMIC 220PF	10% 400V	R603	$\Delta$ 1-246-521-75	CARBON 100K 5% 1/4W	
C658	1-124-499-11	ELECT 1MF	20% 50V	R604	$\Delta$ 1-246-521-75	CARBON 100K 5% 1/4W	
C659	1-108-614-11	MYLAR 0.001MF	10% 100V	R605	1-202-720-00	SOLID 1.2M 10% 1/2W	
C660	$\Delta$ 1-162-578-51	CERAMIC 0.0047MF	20% 400V	R606	1-249-423-11	CARBON 3.3K 5% 1/4W	
C661	$\Delta$ 1-162-578-51	CERAMIC 0.0047MF	20% 400V	R610	1-249-405-11	CARBON 100 5% 1/4W	
C671	1-126-103-11	ELECT 470MF	20% 16V	R611	1-216-444-11	METAL OXIDE 82K 5% 1W F	
C674	1-126-105-11	ELECT 1000MF	20% 35V	R612	1-216-444-11	METAL OXIDE 82K 5% 1W F	
C675	1-162-116-00	CERAMIC 680PF	10% 2KV	R613	1-249-496-11	CARBON 100K 5% 1/2W F	
C676	1-102-973-00	CERAMIC 100PF	5% 50V	R614	1-215-923-00	METAL OXIDE 10K 5% 3W F	
<DIODE>				R615	1-247-887-00	CARBON 220K 5% 1/4W	
D601	$\Delta$ 8-719-503-06	DIODE S3WB60Z		R616	1-247-711-11	CARBON 680 5% 1/4W	
D605	8-719-911-19	DIODE 1SS119		R617	1-247-725-11	CARBON 10K 5% 1/4W	
D606	8-719-911-19	DIODE 1SS119		R618	1-249-396-11	CARBON 18 5% 1/4W	
D607	8-719-110-90	DIODE RD39ES-B4		R619	1-247-710-11	CARBON 560 5% 1/4W F	
D608	8-719-110-90	DIODE RD39ES-B4		R620	1-217-192-21	WIREWOUND 0.22 10% 2W F	
D611	8-719-118-34	DIODE RD110E-B		R621	1-249-423-11	CARBON 3.3K 5% 1/4W	
D612	8-719-300-33	DIODE RU-3AM		R622	1-249-434-11	CARBON 27K 5% 1/4W	
D613	8-719-200-02	DIODE 10E2		R623	1-215-457-00	METAL 33K 1% 1/6W	
D614	8-719-300-33	DIODE RU-3AM		R624	1-249-429-11	CARBON 10K 5% 1/4W	
D615	8-719-109-97	DIODE RD6.8ES-B2		R625	1-247-726-11	CARBON 33K 5% 1/4W	
D616	8-719-300-33	DIODE RU-3AM		R626	1-249-411-11	CARBON 330 5% 1/4W	
D617	8-719-911-19	DIODE 1SS119		R627	1-249-438-11	CARBON 56K 5% 1/4W	
D619	8-719-911-19	DIODE 1SS119		R628	1-247-887-00	CARBON 220K 5% 1/4W	
D620	8-719-300-33	DIODE RU-3AM					
D622	8-719-110-49	DIODE RD18ES-B2					
D651	8-719-300-33	DIODE RU-3AM					
D652	8-719-200-02	DIODE 10E2					
D653	8-719-300-76	DIODE RH-1A					
D654	8-719-911-19	DIODE 1SS119					
D655	8-719-110-41	DIODE RD15ES-B2					



# PVM-2043MD

• The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

**FE**

**QC**

REF.NO.	PART NO.	DESCRIPTION	REMARK
R629	1-249-428-11	CARBON 8.2K 5% 1/4W	
R630	1-249-436-11	CARBON 39K 5% 1/4W	
R631	1-249-424-11	CARBON 3.9K 5% 1/4W	
R632	1-247-753-11	CARBON 1.2K 5% 1/2W	F
R633	1-249-441-11	CARBON 100K 5% 1/4W	
R634	1-249-417-11	CARBON 1K 5% 1/4W	
R635	1-205-928-11	WIREWOUND 180 10% 10W	
R636	1-205-927-11	WIREWOUND 2.2K 10% 10W	
R637	1-216-465-11	METAL OXIDE 27K 5% 2W	F
R640	1-249-438-11	CARBON 56K 5% 1/4W	
R644	1-247-885-00	CARBON 180K 5% 1/4W	
R648	1-247-887-00	CARBON 220K 5% 1/4W	
R651	1-247-881-00	CARBON 120K 5% 1/4W	
R652	1-215-924-00	METAL OXIDE 15K 5% 3W	F
R653	1-249-417-11	CARBON 1K 5% 1/4W	
R654	1-247-881-00	CARBON 120K 5% 1/4W	
R655	1-249-469-11	CARBON 100K 5% 1/4W	
R656	1-247-895-00	CARBON 470K 5% 1/4W	
R657	1-247-883-00	CARBON 150K 5% 1/4W	
R658	△ 1-247-289-11	CARBON 8.2M 5% 1W	
R661	1-249-443-11	CARBON 0.47 5% 1/4W	F
R665	1-215-427-00	METAL 1.8K 1% 1/6W	
R669	1-249-443-11	CARBON 0.47 5% 1/4W	F
R671	1-249-410-11	CARBON 270 5% 1/4W	
R682	1-215-923-00	METAL OXIDE 10K 5% 3W	F
R688	1-249-427-11	CARBON 6.8K 5% 1/4W	
■ R690	△ 1-216-513-11	METAL 27K 5% 5W	F
R691	1-216-513-11	METAL OXIDE 27K 5% 5W	F
R692	1-202-719-00	SOLID 1M 10% 1/2W	
<VARIABLE RESISTOR>			
RV601	1-230-504-11	RES. ADJ. CARBON 220	
<TRANSFORMER>			
T602	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE	
T603	△ 1-448-895-11	SRT	
T604	△ 1-421-776-11	LFT	
T605	△ 1-421-758-11	TRANSFORMER, LINE FILTER (LFT)	
<THERMISTOR>			
TH611	1-800-200-00	THERMISTOR S-3K	
THP601	△ 1-806-387-12	THERMISTOR (POSITIVE)	

\*A-1270-247-A QC BOARD, COMPLETE

\*1-629-154-11 QC BOARD  
 1-537-191-11 TERMINAL BOARD, INPUT/OUTPUT  
 1-537-192-11 TERMINAL BOARD, INPUT/OUTPUT  
 \*3-682-419-01 HOLDER, P.C.B.  
 \*4-379-104-01 INSULATOR, SLIDE SW

<CAPACITOR>

C101	1-124-589-11	ELECT 47MF	20%	16V
C102	1-126-160-11	ELECT 1MF	20%	50V
C103	1-126-160-11	ELECT 1MF	20%	50V
C104	1-161-021-11	CERAMIC 0.047MF	10%	25V
C105	1-126-160-11	ELECT 1MF	20%	50V
C106	1-126-160-11	ELECT 1MF	20%	50V
C107	1-124-589-11	ELECT 47MF	20%	16V
C108	1-124-589-11	ELECT 47MF	20%	16V
C109	1-124-589-11	ELECT 47MF	20%	16V
C110	1-124-589-11	ELECT 47MF	20%	16V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C111	1-124-589-11	ELECT 47MF	20% 16V
C112	1-124-589-11	ELECT 47MF	20% 16V
C113	1-124-589-11	ELECT 47MF	20% 16V
C114	1-126-160-11	ELECT 1MF	20% 50V
C115	1-126-160-11	ELECT 1MF	20% 50V
C116	1-124-589-11	ELECT 47MF	20% 16V
C117	1-126-157-11	ELECT 10MF	20% 16V
C118	1-126-157-11	ELECT 10MF	20% 16V
C119	1-126-157-11	ELECT 10MF	20% 16V
C120	1-124-589-11	ELECT 47MF	20% 16V
C122	1-124-589-11	ELECT 47MF	20% 16V
C123	1-124-589-11	ELECT 47MF	20% 16V
<IC>			
IC101	8-759-800-81	IC LA7016	
<TRANSISTOR>			
Q122	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R101	1-249-429-11	CARBON 10K 5% 1/4W	
R102	1-249-405-11	CARBON 100 5% 1/4W	
R103	1-249-429-11	CARBON 10K 5% 1/4W	
R104	1-249-405-11	CARBON 100 5% 1/4W	
R105	1-247-104-00	CARBON 75 5% 1/4W	
R106	1-249-405-11	CARBON 100 5% 1/4W	
R107	1-247-104-00	CARBON 75 5% 1/4W	
R108	1-249-405-11	CARBON 100 5% 1/4W	
R109	1-247-104-00	CARBON 75 5% 1/4W	
R110	1-247-104-00	CARBON 75 5% 1/4W	
R111	1-249-429-11	CARBON 10K 5% 1/4W	
R112	1-249-405-11	CARBON 100 5% 1/4W	
R113	1-249-429-11	CARBON 10K 5% 1/4W	
R114	1-247-104-00	CARBON 75 5% 1/4W	
R115	1-249-405-11	CARBON 100 5% 1/4W	
R116	1-247-704-11	CARBON 220 5% 1/4W	
R117	1-247-703-11	CARBON 180 5% 1/4W	
R118	1-247-703-11	CARBON 180 5% 1/4W	
R119	1-249-417-11	CARBON 1K 5% 1/4W	
R121	1-249-417-11	CARBON 1K 5% 1/4W	
R122	1-215-393-00	METAL 68 1% 1/6W	
R123	1-249-417-11	CARBON 1K 5% 1/4W	
R125	1-249-405-11	CARBON 100 5% 1/4W	
R126	1-249-433-11	CARBON 22K 5% 1/4W	
R127	1-249-433-11	CARBON 22K 5% 1/4W	
R128	1-249-429-11	CARBON 10K 5% 1/4W	
R129	1-247-104-00	CARBON 75 5% 1/4W	
R130	1-247-104-00	CARBON 75 5% 1/4W	
R131	1-247-104-00	CARBON 75 5% 1/4W	
R132	1-249-417-11	CARBON 1K 5% 1/4W	
R133	1-247-104-00	CARBON 75 5% 1/4W	
R134	1-249-417-11	CARBON 1K 5% 1/4W	
R220	1-215-429-00	METAL 2.2K 1% 1/6W	
R221	1-215-429-00	METAL 2.2K 1% 1/6W	
R222	1-215-429-00	METAL 2.2K 1% 1/6W	
R254	1-249-420-11	CARBON 1.8K 5% 1/4W	
R298	1-249-431-11	CARBON 15K 5% 1/4W	
<VARIABLE RESISTOR>			
RV101	1-228-848-00	RES. VAR. CARBON 10K	
RV102	1-228-848-00	RES. VAR. CARBON 10K	



Qc

Qd

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<SWITCH>				IC107	8-759-933-23	IC BA236	
SI01	1-570-145-11	SWITCH, SLIDE		<FILTER MODULE>			
*****				LP101	1-235-988-11	FILTER MODULE, LOW PASS	
*A 1270-248-A QD BOARD, COMPLETE				<TRANSISTOR>			
*****				Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
*3-682-419-01 HOLDER, P.C.B				Q102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<CAPACITOR>				Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C121	1-126-094-11	ELECT 4.7MF	20% 25V	Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C124	1-101-004-00	CERAMIC 0.01MF	50V	Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C125	1-124-477-11	ELECT 47MF	20% 16V	Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C126	1-124-589-11	ELECT 47MF	20% 16V	Q107	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C127	1-101-004-00	CERAMIC 0.01MF	50V	Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C128	1-124-589-11	ELECT 47MF	20% 16V	Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C129	1-124-589-11	ELECT 47MF	20% 16V	Q110	8-729-900-36	TRANSISTOR DTC124ES	
C130	1-124-584-00	ELECT 100MF	20% 10V	Q111	8-729-900-89	TRANSISTOR DTC144ES	
C131	1-161-021-11	CERAMIC 0.047MF	10% 25V	Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C132	1-102-963-00	CERAMIC 33PF	5% 50V	Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C133	1-126-157-11	ELECT 10MF	20% 16V	Q114	8-729-900-36	TRANSISTOR DTC124ES	
C134	1-161-021-11	CERAMIC 0.047MF	10% 25V	Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE	
C135	1-106-375-12	MYLAR 0.022MF	10% 100V	Q125	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C136	1-101-004-00	CERAMIC 0.01MF	50V	Q131	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C137	1-124-589-11	ELECT 47MF	20% 16V	Q132	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C138	1-124-589-11	ELECT 47MF	20% 16V	Q135	8-729-900-65	TRANSISTOR DTA144ES	
C139	1-126-160-11	ELECT 1MF	20% 50V	<RESISTOR>			
C140	1-124-589-11	ELECT 47MF	20% 16V	R135	1-249-417-11	CARBON 1K 5%	1/4W
C141	1-102-965-00	CERAMIC 39PF	5% 50V	R136	1-249-411-11	CARBON 330 5%	1/4W
C142	1-102-965-00	CERAMIC 39PF	5% 50V	R137	1-249-418-11	CARBON 1.2K 5%	1/4W
C143	1-102-965-00	CERAMIC 39PF	5% 50V	R138	1-249-421-11	CARBON 2.2K 5%	1/4W
C144	1-126-094-11	ELECT 4.7MF	20% 25V	R139	1-249-424-11	CARBON 3.9K 5%	1/4W
C145	1-161-021-11	CERAMIC 0.047MF	10% 25V	R140	1-249-417-11	CARBON 1K 5%	1/4W
C146	1-124-589-11	ELECT 47MF	20% 16V	R141	1-249-425-11	CARBON 4.7K 5%	1/4W
C147	1-124-589-11	ELECT 47MF	20% 16V	R142	1-249-435-11	CARBON 33K 5%	1/4W
C148	1-126-157-11	ELECT 10MF	20% 16V	R143	1-249-435-11	CARBON 33K 5%	1/4W
C149	1-130-728-00	FILM 0.0022MF	10% 50V	R144	1-249-417-11	CARBON 1K 5%	1/4W
C150	1-130-483-00	MYLAR 0.01MF	5% 50V	R145	1-249-411-11	CARBON 330 5%	1/4W
C151	1-130-471-00	FILM 0.001MF	10% 50V	R146	1-249-417-11	CARBON 1K 5%	1/4W
C172	1-101-005-00	CERAMIC 0.022MF	50V	R147	1-249-411-11	CARBON 330 5%	1/4W
C173	1-136-169-00	FILM 0.22MF	5% 50V	R148	1-249-429-11	CARBON 10K 5%	1/4W
C174	1-102-965-00	CERAMIC 39PF	5% 50V	R149	1-249-425-11	CARBON 4.7K 5%	1/4W
<DIODE>				R150	1-249-417-11	CARBON 1K 5%	1/4W
D102	8-719-110-03	DIODE RD7.5ES-B2		R151	1-249-429-11	CARBON 10K 5%	1/4W
D103	8-719-911-19	DIODE 1SS119		R152	1-249-429-11	CARBON 10K 5%	1/4W
D104	8-719-911-19	DIODE 1SS119		R153	1-249-405-11	CARBON 100 5%	1/4W
D105	8-719-911-19	DIODE 1SS119		R154	1-249-405-11	CARBON 100 5%	1/4W
D106	8-719-109-85	DIODE RD5.1ES-B2		R155	1-249-433-11	CARBON 22K 5%	1/4W
D107	8-719-109-85	DIODE RD5.1ES-B2		R156	1-249-433-11	CARBON 22K 5%	1/4W
D113	8-719-911-19	DIODE 1SS119		R157	1-249-430-11	CARBON 12K 5%	1/4W
D116	8-719-911-19	DIODE 1SS119		R158	1-249-417-11	CARBON 1K 5%	1/4W
<IC>				R159	1-247-706-11	CARBON 330 5%	1/4W
IC102	8-759-900-09	IC SN74LS09N		R160	1-247-706-11	CARBON 330 5%	1/4W
IC103	8-759-901-38	IC SN74LS138N		R161	1-247-706-11	CARBON 330 5%	1/4W
IC104	8-759-901-36	IC SN74LS136N		R162	1-249-426-11	CARBON 5.6K 5%	1/4W
IC105	8-759-900-11	IC SN74LS11N		R163	1-249-421-11	CARBON 2.2K 5%	1/4W
IC106	8-759-800-81	IC LA7016		R164	1-249-421-11	CARBON 2.2K 5%	1/4W
				R165	1-249-425-11	CARBON 4.7K 5%	1/4W
				R166	1-249-425-11	CARBON 4.7K 5%	1/4W
				R167	1-247-721-11	CARBON 4.7K 5%	1/4W
				R168	1-249-421-11	CARBON 2.2K 5%	1/4W

# PVM-2043MD

QD

QE

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R169	1-249-433-11	CARBON	22K 5% 1/4W	<DIODE>			
R170	1-249-437-11	CARBON	47K 5% 1/4W	D108	8-719-911-19	DIODE 1SS119	
R171	1-247-725-11	CARBON	10K 5% 1/4W	D109	8-719-911-19	DIODE 1SS119	
R172	1-249-405-11	CARBON	100 5% 1/4W	D110	8-719-911-19	DIODE 1SS119	
R173	1-247-716-11	CARBON	1.8K 5% 1/4W	D111	8-719-911-19	DIODE 1SS119	
R174	1-249-432-11	CARBON	18K 5% 1/4W	D112	8-719-911-19	DIODE 1SS119	
R175	1-249-408-11	CARBON	180 5% 1/4W	D114	8-719-911-19	DIODE 1SS119	
R176	1-249-437-11	CARBON	47K 5% 1/4W	D115	8-719-911-19	DIODE 1SS119	
R178	1-249-418-11	CARBON	1.2K 5% 1/4W	<IC>			
R179	1-247-713-11	CARBON	1K 5% 1/4W	IC108	8-759-800-81	IC LA7016	
R220	1-249-429-11	CARBON	10K 5% 1/4W	IC109	8-759-800-81	IC LA7016	
R221	1-249-437-11	CARBON	47K 5% 1/4W	IC110	8-759-800-81	IC LA7016	
R222	1-249-437-11	CARBON	47K 5% 1/4W	IC111	8-759-710-31	IC NJM2243S	
R223	1-249-417-11	CARBON	1K 5% 1/4W	<TRANSISTOR>			
R224	1-249-429-11	CARBON	10K 5% 1/4W	Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R225	1-249-425-11	CARBON	4.7K 5% 1/4W	Q117	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R226	1-249-409-11	CARBON	220 5% 1/4W	Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE	
R231	1-249-432-11	CARBON	18K 5% 1/4W	Q119	8-729-900-36	TRANSISTOR DTC124ES	
R235	1-249-425-11	CARBON	4.7K 5% 1/4W	Q120	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R236	1-249-417-11	CARBON	1K 5% 1/4W	Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R237	1-249-420-11	CARBON	1.8K 5% 1/4W	Q127	8-729-900-65	TRANSISTOR DTA144ES	
R241	1-249-408-11	CARBON	180 5% 1/4W	<CONNECTOR>			
R242	1-249-405-11	CARBON	100 5% 1/4W	QE1	*1-564-515-11	PLUG, CONNECTOR 12P	
R244	1-249-405-11	CARBON	100 5% 1/4W	QE2	*1-564-516-11	PLUG, CONNECTOR 13P	
R260	1-249-433-11	CARBON	22K 5% 1/4W	QE3	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
R261	1-249-433-11	CARBON	22K 5% 1/4W	<RESISTOR>			
R263	1-249-405-11	CARBON	100 5% 1/4W	R180	1-249-405-11	CARBON	100 5% 1/4W
R299	1-249-420-11	CARBON	1.8K 5% 1/4W	R181	1-249-412-11	CARBON	390 5% 1/4W
<VARIABLE RESISTOR>				R182	1-249-417-11	CARBON	1K 5% 1/4W
RV103	1-228-995-00	RES, ADJ, CARBON 22K		R183	1-249-436-11	CARBON	39K 5% 1/4W
<SWITCH>				R184	1-249-435-11	CARBON	33K 5% 1/4W
S102	1-553-977-41	SWITCH, SLIDE		R185	1-249-405-11	CARBON	100 5% 1/4W
*****				R186	1-249-433-11	CARBON	22K 5% 1/4W
*A-1270-249-A QE BOARD, COMPLETE				R187	1-249-433-11	CARBON	22K 5% 1/4W
*****				R188	1-249-405-11	CARBON	100 5% 1/4W
<CAPACITOR>				R189	1-249-433-11	CARBON	22K 5% 1/4W
C152	1-101-004-00	CERAMIC	0.01MF 50V	R190	1-249-433-11	CARBON	22K 5% 1/4W
C154	1-123-875-11	ELECT	10MF 20% 50V	R192	1-249-437-11	CARBON	47K 5% 1/4W
C155	1-124-499-11	ELECT	1MF 20% 50V	R193	1-249-429-11	CARBON	10K 5% 1/4W
C156	1-124-499-11	ELECT	1MF 20% 50V	R194	1-249-433-11	CARBON	22K 5% 1/4W
C157	1-126-160-11	ELECT	1MF 20% 50V	R195	1-249-433-11	CARBON	22K 5% 1/4W
C158	1-124-477-11	ELECT	47MF 20% 25V	R196	1-249-405-11	CARBON	100 5% 1/4W
C159	1-126-160-11	ELECT	1MF 20% 50V	R197	1-249-421-11	CARBON	2.2K 5% 1/4W
C160	1-124-499-11	ELECT	1MF 20% 50V	R198	1-249-421-11	CARBON	2.2K 5% 1/4W
C161	1-124-477-11	ELECT	47MF 20% 16V	R199	1-249-441-11	CARBON	100K 5% 1/4W
C162	1-124-477-11	ELECT	47MF 20% 16V	R200	1-249-435-11	CARBON	33K 5% 1/4W
C163	1-124-477-11	ELECT	47MF 20% 16V	R201	1-249-428-11	CARBON	8.2K 5% 1/4W
C164	1-161-021-11	CERAMIC	0.047MF 10% 25V	R202	1-249-417-11	CARBON	1K 5% 1/4W
C165	1-124-477-11	ELECT	47MF 20% 16V	R203	1-249-429-11	CARBON	10K 5% 1/4W
C166	1-124-477-11	ELECT	47MF 20% 16V	R204	1-249-428-11	CARBON	8.2K 5% 1/4W
C167	1-124-477-11	ELECT	47MF 20% 16V	R205	1-249-405-11	CARBON	100 5% 1/4W
C168	1-124-589-11	ELECT	47MF 20% 16V	R206	1-249-429-11	CARBON	10K 5% 1/4W
C169	1-161-021-11	CERAMIC	0.047MF 10% 25V	R207	1-249-429-11	CARBON	10K 5% 1/4W
C170	1-124-477-11	ELECT	47MF 20% 25V	R208	1-249-417-11	CARBON	1K 5% 1/4W
C171	1-124-925-11	ELECT	2.2MF 20% 50V	R209	1-249-405-11	CARBON	100 5% 1/4W
				R210	1-249-433-11	CARBON	22K 5% 1/4W

QE

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R211	1-249-433-11	CARBON	22K 5% 1/4W	C319	1-101-004-00	CERAMIC	0.01MF 50V
R212	1-249-433-11	CARBON	22K 5% 1/4W	C320	1-124-499-11	ELECT	1MF 20% 50V
R213	1-249-433-11	CARBON	22K 5% 1/4W	C321	1-124-477-11	ELECT	47MF 20% 16V
R215	1-249-405-11	CARBON	100 5% 1/4W	C322	1-124-902-00	ELECT	0.47MF 20% 50V
R216	1-249-411-11	CARBON	330 5% 1/4W	C323	1-101-361-00	CERAMIC	150PF 5% 50V
R217	1-249-433-11	CARBON	22K 5% 1/4W	C324	1-124-477-11	ELECT	47MF 20% 16V
R251	1-249-417-11	CARBON	1K 5% 1/4W	C325	1-101-361-00	CERAMIC	150PF 5% 50V
R252	1-249-417-11	CARBON	1K 5% 1/4W	C326	1-124-477-11	ELECT	47MF 20% 16V
R253	1-249-417-11	CARBON	1K 5% 1/4W	C327	1-124-477-11	ELECT	47MF 20% 16V
R265	1-249-415-11	CARBON	680 5% 1/4W	C328	1-124-009-11	ELECT	47MF 20% 25V
*****				C329	1-124-477-11	ELECT	47MF 20% 16V
*A-1296-593-A A BOARD, COMPLETE				C330	1-101-880-00	CERAMIC	47PF 5% 50V
*****				C331	1-101-004-00	CERAMIC	0.01MF 50V
*4-329-153-00 HEAT SINK, V OUT				C332	1-102-971-00	CERAMIC	82PF 5% 50V
*4-341-751-01 EYELET (EY6,EY7,EY8,EY9,EY10,EY11,EY14, EY17,EY18,EY19,EY20,EY21,EY22,EY23, EY24)				C333	1-136-165-00	FILM	0.1MF 5% 50V
*4-341-752-01 EYELET (EY1,EY2,EY3,EY4)				C334	1-136-173-00	FILM	0.47MF 5% 50V
*4-363-404-00 HOLDER, IC				C335	1-136-173-00	FILM	0.47MF 5% 50V
4-363-414-00 SPACER, MICA				C336	1-102-971-00	CERAMIC	82PF 5% 50V
<CONNECTOR>				C337	1-124-477-11	ELECT	47MF 20% 16V
A1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P		C338	1-124-477-11	ELECT	47MF 20% 16V
A2	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C339	1-124-477-11	ELECT	47MF 20% 16V
A3	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C340	1-124-477-11	ELECT	47MF 20% 16V
A4	*1-564-596-11	PLUG, CONNECTOR 15P		C341	1-124-477-11	ELECT	47MF 20% 16V
A5	*1-564-596-11	PLUG, CONNECTOR 15P		C342	1-124-477-11	ELECT	47MF 20% 16V
A6	*1-565-497-11	CONNECTOR, BOARD TO BOARD 6P		C343	1-124-477-11	ELECT	47MF 20% 16V
A7	*1-565-498-11	CONNECTOR, BOARD TO BOARD 7P		C344	1-124-477-11	ELECT	47MF 20% 16V
A8	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C345	1-102-949-00	CERAMIC	12PF 5% 50V
A9	*1-565-506-11	CONNECTOR, BOARD TO BOARD 15P		C346	1-126-233-11	ELECT	22MF 20% 50V
A10	*1-564-596-11	PLUG, CONNECTOR 15P		C347	1-123-875-11	ELECT	10MF 20% 50V
A11	*1-564-596-11	PLUG, CONNECTOR 15P		C348	1-101-004-00	CERAMIC	0.01MF 50V
A13	*1-568-105-11	HOUSING, CONNECTOR 10P		C349	1-124-120-11	ELECT	220MF 20% 16V
A14	*1-568-105-11	HOUSING, CONNECTOR 10P		C350	1-101-884-00	CERAMIC	56PF 5% 50V
A16	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C351	1-102-106-00	CERAMIC	100PF 10% 50V
A17	*1-565-496-11	CONNECTOR, BOARD TO BOARD 5P		C352	1-102-125-00	CERAMIC	0.0047MF 10% 50V
A18	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		C353	1-161-021-11	CERAMIC	0.047MF 10% 25V
A20	*1-564-507-11	PLUG, CONNECTOR 4P		C401	1-136-153-00	FILM	0.01MF 5% 50V
A22	*1-564-505-11	PLUG, CONNECTOR 2P		C402	1-136-165-00	FILM	0.1MF 5% 50V
<CAPACITOR>				C403	1-136-165-00	FILM	0.1MF 5% 50V
C300	1-123-875-11	ELECT	10MF 20% 50V	C404	1-136-169-00	FILM	0.22MF 5% 50V
C301	1-124-477-11	ELECT	47MF 20% 16V	C405	1-136-169-00	FILM	0.22MF 5% 50V
C302	1-101-884-00	CERAMIC	56PF 5% 50V	C406	1-136-169-00	FILM	0.22MF 5% 50V
C303	1-136-173-00	FILM	0.47MF 5% 50V	C407	1-136-169-00	FILM	0.22MF 5% 50V
C304	1-101-884-00	CERAMIC	56PF 5% 50V	C408	1-136-169-00	FILM	0.22MF 5% 50V
C305	1-136-173-00	FILM	0.47MF 5% 50V	C409	1-136-169-00	FILM	0.22MF 5% 50V
C306	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C410	1-124-499-11	ELECT	1MF 20% 50V
C307	1-124-477-11	ELECT	47MF 20% 16V	C411	1-124-499-11	ELECT	1MF 20% 50V
C308	1-124-477-11	ELECT	47MF 20% 16V	C412	1-124-463-00	ELECT	0.1MF 20% 50V
C309	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C413	1-124-463-00	ELECT	0.1MF 20% 50V
C310	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C414	1-136-165-00	FILM	0.1MF 5% 50V
C311	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C415	1-136-165-00	FILM	0.1MF 5% 50V
C312	1-123-875-11	ELECT	10MF 20% 50V	C416	1-126-233-11	ELECT	22MF 20% 50V
C313	1-102-074-00	CERAMIC	0.001MF 10% 50V	C417	1-136-161-00	FILM	0.047MF 5% 50V
C314	1-102-074-00	CERAMIC	0.001MF 10% 50V	C418	1-136-153-00	FILM	0.01MF 5% 50V
C315	1-124-927-11	ELECT	4.7MF 20% 50V	C419	1-130-479-00	MYLAR	0.0047MF 5% 50V
C316	1-136-161-00	FILM	0.047MF 5% 50V	C420	1-136-161-00	FILM	0.047MF 5% 50V
C317	1-136-161-00	FILM	0.047MF 5% 50V	C421	1-136-153-00	FILM	0.01MF 5% 50V
C318	1-136-165-00	FILM	0.1MF 5% 50V	C422	1-130-479-00	MYLAR	0.0047MF 5% 50V
				C423	1-136-153-00	FILM	0.01MF 5% 50V
				C424	1-130-479-00	MYLAR	0.0047MF 5% 50V
				C425	1-126-101-11	ELECT	100MF 20% 16V
				C426	1-136-161-00	FILM	0.047MF 5% 50V
				C427	1-126-101-11	ELECT	100MF 20% 16V
				C428	1-126-101-11	ELECT	100MF 20% 16V

# PVM-2043MD

A

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C429	1-102-944-00	CERAMIC	7PF 1PF 50V	C537	1-102-002-00	CERAMIC	680PF 10% 500V
C431	1-102-816-00	CERAMIC	120PF 5% 50V	C538	1-108-626-11	MYLAR	0.01MF 10% 100V
C470	1-124-120-11	ELECT	220MF 20% 16V	C539	1-108-626-11	MYLAR	0.01MF 10% 100V
C471	1-124-120-11	ELECT	220MF 20% 16V	C540	1-106-347-00	MYLAR	0.0015MF 10% 100V
C472	1-101-004-00	CERAMIC	0.01MF 50V	C541	1-124-045-00	ELECT	4.7MF 20% 50V
C473	1-126-101-11	ELECT	100MF 20% 16V	C542	1-123-875-11	ELECT	10MF 20% 50V
C474	1-101-004-00	CERAMIC	0.01MF 50V	C543	1-124-927-11	ELECT	4.7MF 20% 50V
C475	1-101-004-00	CERAMIC	0.01MF 50V	C544	1-124-190-00	ELECT	680MF 10% 25V
C476	1-101-888-00	CERAMIC	68PF 5% 50V	C545	1-108-693-11	MYLAR	0.012MF 10% 200V
C477	1-101-006-00	CERAMIC	0.047MF 50V	C546	1-102-030-00	CERAMIC	330PF 10% 500V
C478	1-101-004-00	CERAMIC	0.01MF 50V	C547	1-124-342-00	ELECT	3.3MF 20% 160V
C479	1-126-101-11	ELECT	100MF 20% 16V	C548	1-102-030-00	CERAMIC	330PF 10% 500V
C480	1-101-004-00	CERAMIC	0.01MF 50V	C549	1-123-875-11	ELECT	10MF 20% 50V
C481	1-101-004-00	CERAMIC	0.01MF 50V	C550	1-102-244-00	CERAMIC	220PF 10% 500V
C482	1-126-101-11	ELECT	100MF 20% 16V	C551	1-124-360-00	ELECT	1000MF 20% 16V
C483	1-124-120-11	ELECT	220MF 20% 16V	C552	1-124-499-11	ELECT	1MF 20% 50V
C484	1-101-004-00	CERAMIC	0.01MF 50V	C553	1-108-626-11	MYLAR	0.01MF 10% 100V
C485	1-126-101-11	ELECT	100MF 20% 16V	C554	1-124-499-11	ELECT	1MF 20% 50V
C486	1-101-004-00	CERAMIC	0.01MF 50V	C555	1-108-633-11	MYLAR	0.039MF 10% 100V
C487	1-101-004-00	CERAMIC	0.01MF 50V	C556	1-136-173-00	FILM	0.47MF 5% 50V
C488	1-124-120-11	ELECT	220MF 20% 16V	C557	1-124-902-00	ELECT	0.47MF 20% 50V
C489	1-124-927-11	ELECT	4.7MF 20% 50V	C558	1-131-356-00	TANTALUM	3.3MF 10% 25V
C491	1-101-004-00	CERAMIC	0.01MF 50V	C559	1-123-875-11	ELECT	10MF 20% 50V
C492	1-124-120-11	ELECT	220MF 20% 16V	C560	1-136-161-00	FILM	0.047MF 5% 50V
C493	1-101-004-00	CERAMIC	0.01MF 50V	C561	1-102-973-00	CERAMIC	100PF 5% 50V
C494	1-124-120-11	ELECT	220MF 20% 16V	C562	1-130-471-00	FILM	0.001MF 5% 50V
C495	1-101-880-00	CERAMIC	47PF 5% 50V	C563	1-123-875-11	ELECT	10MF 20% 50V
C496	1-126-101-11	ELECT	100MF 20% 16V	C564	1-102-978-00	CERAMIC	220PF 5% 50V
C497	1-124-120-11	ELECT	220MF 20% 16V	C565	1-126-101-11	ELECT	100MF 20% 16V
C498	1-124-925-11	ELECT	2.2MF 20% 50V	C566	1-124-499-11	ELECT	1MF 20% 50V
C500	1-101-884-00	CERAMIC	56PF 5% 50V	C567	1-123-875-11	ELECT	10MF 20% 50V
C501	1-124-120-11	ELECT	220MF 20% 16V	C568	1-108-614-11	MYLAR	0.001MF 10% 100V
C502	1-124-927-11	ELECT	4.7MF 20% 50V	C569	1-130-736-11	FILM	0.01MF 5% 50V
C503	1-124-927-11	ELECT	4.7MF 20% 50V	C570	1-123-875-11	ELECT	10MF 20% 50V
C504	1-102-114-00	CERAMIC	470PF 10% 50V	C571	1-126-233-11	ELECT	22MF 20% 25V
C505	1-123-875-11	ELECT	10MF 20% 50V	C572	1-124-499-11	ELECT	1MF 20% 50V
C506	1-136-298-00	FILM	0.0033MF 5% 100V	C573	1-123-875-11	ELECT	10MF 20% 50V
C507	1-106-351-00	MYLAR	0.0022MF 5% 100V	C574	1-126-101-11	ELECT	100MF 20% 16V
C508	1-108-626-11	MYLAR	0.01MF 10% 100V	C575	1-102-978-00	CERAMIC	220PF 5% 50V
C509	1-106-375-12	MYLAR	0.022MF 10% 100V	C576	1-161-021-11	CERAMIC	0.047MF 10% 25V
C510	1-108-626-11	MYLAR	0.01MF 10% 100V	C577	1-123-875-11	ELECT	10MF 20% 50V
C511	1-124-902-00	ELECT	0.47MF 20% 50V	C578	1-124-477-11	ELECT	47MF 20% 16V
C512	1-102-030-00	CERAMIC	330PF 10% 500V	C579	1-124-477-11	ELECT	47MF 20% 16V
C513 A	1-136-333-51	FILM	0.027MF 5% 630V	C580	1-124-499-11	ELECT	1MF 20% 50V
C514 A	1-136-545-11	FILM	0.0078MF 3% 2KV	C581	1-124-478-11	ELECT	100MF 20% 25V
C516 A	1-162-116-51	CERAMIC	680PF 10% 2KV	C583	1-126-233-11	ELECT	22MF 20% 50V
C517	1-108-692-11	MYLAR	0.01MF 10% 200V	C584	1-126-233-11	ELECT	22MF 20% 50V
C518	1-126-104-11	ELECT	470MF 20% 35V	C585	1-102-110-00	CERAMIC	220PF 10% 50V
C519	1-124-120-11	ELECT	220MF 20% 25V	C590	1-126-233-11	ELECT	22MF 20% 50V
C520	1-124-494-00	ELECT	33MF 160V	C591	1-124-925-11	ELECT	2.2MF 20% 50V
C521	1-102-212-00	CERAMIC	820PF 10% 500V	C599 A	1-136-596-11	FILM	0.0065MF 3% 2KV
C522	1-102-212-00	CERAMIC	820PF 10% 500V	C801	1-101-004-00	CERAMIC	0.01MF 50V
C524	1-108-700-11	MYLAR	0.047MF 10% 200V	C802	1-101-361-00	CERAMIC	150PF 5% 50V
C525	1-108-634-11	MYLAR	0.047MF 10% 100V	C803	1-102-976-00	CERAMIC	180PF 5% 50V
C526	1-124-477-11	ELECT	47MF 20% 16V	C804	1-126-233-11	ELECT	22MF 20% 50V
C527	1-124-902-00	ELECT	0.47MF 20% 50V	C805	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C528	1-124-902-00	ELECT	0.47MF 20% 50V	C806	1-101-884-00	CERAMIC	56PF 5% 50V
C529	1-126-233-11	ELECT	22MF 20% 50V	C807	1-130-736-11	FILM	0.01MF 5% 50V
C530	1-123-875-11	ELECT	10MF 20% 50V	C808	1-124-120-11	ELECT	220MF 20% 50V
C531	1-131-351-00	TANTALUM	4.7MF 10% 35V	C809	1-101-004-00	CERAMIC	0.01MF 50V
C533	1-136-828-11	FILM	1.8MF 5% 200V	C810	1-108-620-11	MYLAR	0.0033MF 10% 100V
C534	1-108-965-11	MYLAR	0.33MF 10% 200V	C811	1-124-927-11	ELECT	4.7MF 20% 50V
C535	1-123-946-00	ELECT	4.7MF 20% 250V	C1001	1-126-101-11	ELECT	100MF 20% 16V
C536	1-136-540-11	FILM	0.82MF 5% 200V				

The components identified by shading and mark **A** are critical for safety.

Replace only with part number specified.

**A**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1002	1-123-875-11	ELECT 10MF 20% 50V		D1001	8-719-911-19	DIODE 1SS119	
C1003	1-102-125-00	CERAMIC 0.0047MF 10% 50V		D1002	8-719-911-19	DIODE 1SS119	
C1004	1-124-464-11	ELECT 0.22MF 20% 50V		D1003	8-719-911-19	DIODE 1SS119	
C1005	1-123-875-11	ELECT 10MF 20% 50V		D1010	8-719-120-64	DIODE RD5.6ES-L1	
C1006	1-123-875-11	ELECT 10MF 20% 50V		D1011	8-719-110-08	DIODE RD8.2ES-B2	
C1007	1-108-634-11	MYLAR 0.047MF 10% 100V		D1012	8-719-911-55	DIODE UOGG	
C1008	1-126-101-11	ELECT 100MF 20% 16V		D1013	8-719-110-37	DIODE RD13ES-B3	
C1009	1-126-103-11	ELECT 470MF 20% 16V		D1014	8-729-936-56	DIODE DAN209S	
C1010	1-126-101-11	ELECT 100MF 20% 16V				<DELAY LINE>	
C1011	1-124-477-11	ELECT 47MF 20% 16V		DL301	1-415-633-11	DELAY LINE, Y	
C1012	1-124-120-11	ELECT 220MF 20% 16V				<IC>	
C1013	1-124-478-11	ELECT 100MF 20% 25V		IC301	8-759-204-21	IC TA7193P	
<DIODE>				IC302	1-808-627-12	ACC BLOCK ACC-1	
D302	8-719-911-19	DIODE 1SS119		IC303	8-759-710-31	IC NJM2243S	
D303	8-719-911-19	DIODE 1SS119		IC304	1-235-534-11	CONTROL MODULE, PICTURE	
D304	8-719-911-19	DIODE 1SS119		IC305	8-749-920-72	IC BX-7573	
D305	8-719-911-19	DIODE 1SS119		IC306	8-759-420-08	IC AN5613	
D306	8-719-911-19	DIODE 1SS119		IC307	1-808-629-11	MODULE, BLUE ONLY BOM-1	
D307	8-719-911-19	DIODE 1SS119		IC308	1-808-626-11	MODULE, GAIN/BIAS GBM-1	
D309	8-719-911-19	DIODE 1SS119		IC309	8-759-208-08	IC TC4052BPHB	
D311	8-719-911-19	DIODE 1SS119		IC311	8-759-800-81	IC LA7016	
D312	8-719-911-19	DIODE 1SS119		IC312	8-759-800-81	IC LA7016	
D313	8-719-911-19	DIODE 1SS119		IC401	8-752-030-31	IC CXA1024S	
D314	8-719-911-19	DIODE 1SS119		IC501	8-759-100-60	IC UPC1377C	
D400	8-719-121-40	DIODE RD10ES-L3		IC502	8-759-945-58	IC RC4558P	
D401	8-719-911-19	DIODE 1SS119		IC503	8-749-920-74	IC BX7574	
D402	8-719-120-27	DIODE RD4.3ES-L2		IC504	8-759-345-38	IC HD14538BP	
D403	8-719-109-93	DIODE RD6.2ES-B2		IC505	8-759-982-13	IC RC7812FA	
D404	8-719-911-19	DIODE 1SS119		IC1001	8-759-420-04	IC AN5265	
D405	8-719-911-19	DIODE 1SS119				<COIL>	
D406	8-719-110-36	DIODE RD13ES-B2		L300	1-410-470-11	INDUCTOR 10UH	
D501	8-719-911-19	DIODE 1SS119		L301	1-410-470-11	INDUCTOR 10UH	
D502	8-719-971-20	DIODE ERC38-06		L302	1-410-470-11	INDUCTOR 10UH	
D504	8-719-901-58	DIODE RGP15J		L303	1-410-471-11	INDUCTOR 12UH	
D505	8-719-901-58	DIODE RGP15J		L304	1-408-406-00	INDUCTOR 5.6UH	
D507	8-719-305-15	DIODE GH3F		L306	1-410-470-11	INDUCTOR 10UH	
D508	8-719-928-08	DIODE ERD28-08S		L307	1-410-473-11	INDUCTOR 18UH	
D509	8-719-109-89	DIODE RD5.6ES-B2		L495	1-421-013-00	COIL (HORIZONTAL CHOKE) 25UH	
D510	8-719-190-00	DIODE RD24E-B27		L501	1-459-155-00	COIL (WITH CORE) 45UH	
D511	8-719-200-02	DIODE 10E2		L503	1-410-666-31	INDUCTOR 18UH	
D512	8-719-200-02	DIODE 10E2		L504	1-407-365-00	COIL, CHOKE	
D513	8-719-911-19	DIODE 1SS119		L505	1-407-365-00	COIL, CHOKE	
D514	8-719-300-76	DIODE RH-1A		L506	1-408-238-00	INDUCTOR 3.9MMH	
D515	8-719-300-76	DIODE RH-1A		L507	1-459-232-11	COIL, CORE	
D516	8-719-200-02	DIODE 10E2		L510	1-459-075-11	COIL, DYNAMIC CONVERSION CHOKE	
D517	8-719-911-19	DIODE 1SS119		L511	1-459-059-00	COIL, DUST CORE	
D518	8-719-200-02	DIODE 10E2		L512	1-408-247-00	INDUCTOR 33MMH	
D519	8-719-911-19	DIODE 1SS119		L513	1-459-104-00	COIL, DUST CORE	
D520	8-719-911-19	DIODE 1SS119		L514	1-410-686-11	INDUCTOR 1MMH	
D521	8-719-911-19	DIODE 1SS119		L515	1-410-510-11	INDUCTOR 12UH	
D522	8-719-911-19	DIODE 1SS119		L801	1-410-470-11	INDUCTOR 10UH	
D523	8-719-911-19	DIODE 1SS119		L802	1-410-089-21	INDUCTOR 15MMH	
D524	8-719-911-19	DIODE 1SS119				<TRANSISTOR>	
D526	8-719-911-19	DIODE 1SS119		Q300	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D527	8-719-911-19	DIODE 1SS119		Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D528	8-719-911-19	DIODE 1SS119					
D529	8-719-911-19	DIODE 1SS119					
D530	8-729-901-83	DIODE 1SS83					
D531	8-719-911-19	DIODE 1SS119					
D599	8-719-928-08	DIODE ERD28-08S					
D801	8-719-911-19	DIODE 1SS119					
D802	8-719-911-19	DIODE 1SS119					



A

REF. NO.	PART NO.	DESCRIPTION
Q302	8-729-119-78	TRANSISTOR 2SC2785 HFE
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q306	8-729-119-78	TRANSISTOR 2SC2785 HFE
Q307	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q308	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q309	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q310	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q311	8-729-900-89	TRANSISTOR DTC144ES
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q314	8-729-900-65	TRANSISTOR DTA144ES
Q315	8-729-900-89	TRANSISTOR DTC144ES
Q316	8-729-900-89	TRANSISTOR DTC144ES
Q317	8-729-900-89	TRANSISTOR DTC144ES
Q318	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q319	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q320	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q321	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q322	8-729-900-89	TRANSISTOR DTC144ES
Q323	8-729-900-89	TRANSISTOR DTC144ES
Q324	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q325	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q326	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q327	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q328	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q329	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q330	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q331	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q332	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q333	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q334	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q335	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q336	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q337	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q338	8-729-900-89	TRANSISTOR DTC144ES
Q400	8-729-177-33	TRANSISTOR 2SD773-4
Q401	8-729-900-36	TRANSISTOR DTC124ES
Q402	8-729-900-36	TRANSISTOR DTC124ES
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q410	8-729-900-89	TRANSISTOR DTC144ES
Q411	8-729-900-89	TRANSISTOR DTC144ES
Q412	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q415	8-729-900-36	TRANSISTOR DTC124ES
Q416	8-729-900-36	TRANSISTOR DTC124ES
Q501	8-729-800-35	TRANSISTOR 2SD1397
Q502	8-729-119-80	TRANSISTOR 2SC2688-LK
Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q505	8-729-309-08	TRANSISTOR 2SC1890A
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q507	8-729-313-42	TRANSISTOR 2SD1134
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q509	8-729-195-82	TRANSISTOR 2SC2958
Q510	8-729-122-03	TRANSISTOR 2SA1220A-P


REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	Q511	8-729-169-02	TRANSISTOR 2SC2690A	
	Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q513	8-729-900-63	TRANSISTOR DTA124ES	
	Q514	8-729-900-36	TRANSISTOR DTC124ES	
	Q515	8-729-900-36	TRANSISTOR DTC124ES	
	Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q517	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q518	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q519	8-729-900-36	TRANSISTOR DTC124ES	
	Q520	8-729-900-63	TRANSISTOR DTA124ES	
	Q521	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q523	8-729-900-36	TRANSISTOR DTC124ES	
	Q524	8-729-900-69	TRANSISTOR DTA144WS	
	Q525	8-729-900-36	TRANSISTOR DTC124ES	
	Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q528	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q529	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q530	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q531	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q532	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q533	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q534	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q550	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q806	8-729-900-36	TRANSISTOR DTC124ES	
	Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	Q1001	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q1002	8-729-119-76	TRANSISTOR 2SA1175-HFE	
	Q1003	8-729-140-96	TRANSISTOR 2SD774-34	
	Q1004	8-729-140-96	TRANSISTOR 2SD774-34	
	Q1005	8-729-122-03	TRANSISTOR 2SA1220A-P	
	Q1006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	<RESISTOR>			
	R300	1-249-405-11	CARBON 100 5% 1/4W	
	R301	1-249-405-11	CARBON 100 5% 1/4W	
	R302	1-247-721-11	CARBON 4.7K 5% 1/4W	
	R303	1-249-426-11	CARBON 5.6K 5% 1/4W	
	R304	1-249-421-11	CARBON 2.2K 5% 1/4W	
	R305	1-249-429-11	CARBON 10K 5% 1/4W	
	R306	1-249-405-11	CARBON 100 5% 1/4W	
	R307	1-247-887-00	CARBON 220K 5% 1/4W	
	R308	1-249-429-11	CARBON 10K 5% 1/4W	
	R309	1-249-405-11	CARBON 100 5% 1/4W	
	R310	1-247-887-00	CARBON 220K 5% 1/4W	
	R311	1-249-435-11	CARBON 33K 5% 1/4W	
	R312	1-249-431-11	CARBON 15K 5% 1/4W	
	R313	1-249-405-11	CARBON 100 5% 1/4W	
	R314	1-249-405-11	CARBON 100 5% 1/4W	
	R315	1-249-413-11	CARBON 470 5% 1/4W	
	R316	1-249-413-11	CARBON 470 5% 1/4W	
	R317	1-249-414-11	CARBON 560 5% 1/4W	
	R318	1-249-422-11	CARBON 2.7K 5% 1/4W	
	R319	1-249-416-11	CARBON 820 5% 1/4W	
	R320	1-249-415-11	CARBON 680 5% 1/4W	
	R321	1-249-411-11	CARBON 330 5% 1/4W	


A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R322	1-249-409-11	CARBON	220 5% 1/4W	R386	1-249-415-11	CARBON	680 5% 1/4W
R323	1-249-409-11	CARBON	220 5% 1/4W	R387	1-249-405-11	CARBON	100 5% 1/4W
R324	1-249-417-11	CARBON	1K 5% 1/4W	R388	1-249-423-11	CARBON	3.3K 5% 1/4W
R325	1-249-405-11	CARBON	100 5% 1/4W	R389	1-249-417-11	CARBON	1K 5% 1/4W
R326	1-249-409-11	CARBON	220 5% 1/4W	R390	1-249-433-11	CARBON	22K 5% 1/4W
R327	1-249-417-11	CARBON	1K 5% 1/4W	R391	1-249-433-11	CARBON	22K 5% 1/4W
R328	1-249-434-11	CARBON	27K 5% 1/4W	R392	1-249-433-11	CARBON	22K 5% 1/4W
R329	1-249-433-11	CARBON	22K 5% 1/4W	R393	1-249-403-11	CARBON	68 5% 1/4W
R330	1-249-433-11	CARBON	22K 5% 1/4W	R394	1-249-409-11	CARBON	220 5% 1/4W
R331	1-249-433-11	CARBON	22K 5% 1/4W	R395	1-249-417-11	CARBON	1K 5% 1/4W
R332	1-249-405-11	CARBON	100 5% 1/4W	R396	1-249-433-11	CARBON	22K 5% 1/4W
R333	1-249-435-11	CARBON	33K 5% 1/4W	R397	1-249-405-11	CARBON	100 5% 1/4W
R334	1-249-432-11	CARBON	18K 5% 1/4W	R398	1-249-405-11	CARBON	100 5% 1/4W
R335	1-249-700-11	CARBON	100 5% 1/4W	R399	1-247-718-11	CARBON	2.7K 5% 1/4W
R336	1-249-417-11	CARBON	1K 5% 1/4W	R400	1-249-413-11	CARBON	470 5% 1/4W
R337	1-249-410-11	CARBON	270 5% 1/4W	R401	1-249-413-11	CARBON	470 5% 1/4W
R338	1-249-421-11	CARBON	2.2K 5% 1/4W	R402	1-249-416-11	CARBON	820 5% 1/4W
R339	1-249-405-11	CARBON	100 5% 1/4W	R403	1-249-411-11	CARBON	330 5% 1/4W
R340	1-249-434-11	CARBON	27K 5% 1/4W	R404	1-249-405-11	CARBON	100 5% 1/4W
R341	1-249-434-11	CARBON	27K 5% 1/4W	R405	1-249-422-11	CARBON	2.7K 5% 1/4W
R342	1-249-418-11	CARBON	1.2K 5% 1/4W	R406	1-249-413-11	CARBON	470 5% 1/4W
R343	1-249-440-11	CARBON	82K 5% 1/4W	R407	1-249-413-11	CARBON	470 5% 1/4W
R344	1-249-428-11	CARBON	8.2K 5% 1/4W	R408	1-249-416-11	CARBON	820 5% 1/4W
R345	1-249-416-11	CARBON	820 5% 1/4W	R409	1-249-411-11	CARBON	330 5% 1/4W
R346	1-249-416-11	CARBON	820 5% 1/4W	R410	1-249-405-11	CARBON	100 5% 1/4W
R347	1-249-421-11	CARBON	2.2K 5% 1/4W	R411	1-249-422-11	CARBON	2.7K 5% 1/4W
R348	1-249-421-11	CARBON	2.2K 5% 1/4W	R412	1-249-419-11	CARBON	1.5K 5% 1/4W
R349	1-249-417-11	CARBON	1K 5% 1/4W	R413	1-249-417-11	CARBON	1K 5% 1/4W
R350	1-249-425-11	CARBON	4.7K 5% 1/4W	R414	1-249-429-11	CARBON	10K 5% 1/4W
R351	1-249-421-11	CARBON	2.2K 5% 1/4W	R415	1-249-417-11	CARBON	1K 5% 1/4W
R352	1-247-891-00	CARBON	330K 5% 1/4W	R416	1-249-429-11	CARBON	10K 5% 1/4W
R353	1-249-428-11	CARBON	8.2K 5% 1/4W	R417	1-249-421-11	CARBON	2.2K 5% 1/4W
R354	1-249-424-11	CARBON	3.9K 5% 1/4W	R418	1-249-439-11	CARBON	68K 5% 1/4W
R355	1-249-434-11	CARBON	27K 5% 1/4W	R419	1-249-433-11	CARBON	22K 5% 1/4W
R356	1-249-437-11	CARBON	47K 5% 1/4W	R420	1-249-426-11	CARBON	5.6K 5% 1/4W
R357	1-249-437-11	CARBON	47K 5% 1/4W	R421	1-249-437-11	CARBON	47K 5% 1/4W
R358	1-249-433-11	CARBON	22K 5% 1/4W	R422	1-249-437-11	CARBON	47K 5% 1/4W
R359	1-249-417-11	CARBON	1K 5% 1/4W	R423	1-249-405-11	CARBON	100 5% 1/4W
R360	1-249-413-11	CARBON	470 5% 1/4W	R424	1-249-437-11	CARBON	47K 5% 1/4W
R361	1-249-405-11	CARBON	100 5% 1/4W	R425	1-249-437-11	CARBON	47K 5% 1/4W
R362	1-249-410-11	CARBON	270 5% 1/4W	R426	1-249-434-11	CARBON	27K 5% 1/4W
R363	1-249-432-11	CARBON	18K 5% 1/4W	R427	1-249-429-11	CARBON	10K 5% 1/4W
R364	1-249-417-11	CARBON	1K 5% 1/4W	R428	1-249-425-11	CARBON	4.7K 5% 1/4W
R365	1-249-432-11	CARBON	18K 5% 1/4W	R429	1-249-405-11	CARBON	100 5% 1/4W
R366	1-249-437-11	CARBON	47K 5% 1/4W	R430	1-247-711-11	CARBON	680 5% 1/4W
R367	1-249-413-11	CARBON	470 5% 1/4W	R431	1-249-416-11	CARBON	820 5% 1/4W
R368	1-249-405-11	CARBON	100 5% 1/4W	R432	1-249-414-11	CARBON	560 5% 1/4W
R369	1-249-405-11	CARBON	100 5% 1/4W	R433	1-249-433-11	CARBON	22K 5% 1/4W
R370	1-249-417-11	CARBON	1K 5% 1/4W	R434	1-249-425-11	CARBON	4.7K 5% 1/4W
R371	1-249-461-11	CARBON	18K 5% 1/4W	R435	1-249-405-11	CARBON	100 5% 1/4W
R372	1-249-465-11	CARBON	47K 5% 1/4W	R436	1-249-423-11	CARBON	3.3K 5% 1/4W
R373	1-249-436-11	CARBON	39K 5% 1/4W	R437	1-249-411-11	CARBON	330 5% 1/4W
R374	1-249-432-11	CARBON	18K 5% 1/4W	R438	1-249-405-11	CARBON	100 5% 1/4W
R375	1-249-405-11	CARBON	100 5% 1/4W	R439	1-249-417-11	CARBON	1K 5% 1/4W
R376	1-249-417-11	CARBON	1K 5% 1/4W	R440	1-249-425-11	CARBON	4.7K 5% 1/4W
R377	1-249-437-11	CARBON	47K 5% 1/4W	R441	1-249-417-11	CARBON	1K 5% 1/4W
R378	1-249-433-11	CARBON	22K 5% 1/4W	R442	1-247-700-11	CARBON	100 5% 1/4W
R379	1-249-430-11	CARBON	12K 5% 1/4W	R443	1-249-421-11	CARBON	2.2K 5% 1/4W
R380	1-249-405-11	CARBON	100 5% 1/4W	R444	1-249-419-11	CARBON	1.5K 5% 1/4W
R381	1-249-431-11	CARBON	15K 5% 1/4W	R445	1-249-417-11	CARBON	1K 5% 1/4W
R382	1-249-408-11	CARBON	180 5% 1/4W	R446	1-249-422-11	CARBON	2.7K 5% 1/4W
R383	1-249-413-11	CARBON	470 5% 1/4W	R447	1-249-429-11	CARBON	10K 5% 1/4W
R384	1-249-413-11	CARBON	470 5% 1/4W	R448	1-247-883-00	CARBON	150K 5% 1/4W
R385	1-249-411-11	CARBON	330 5% 1/4W				

# PVM-2043MD

A

• The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R449	1-249-462-11	CARBON	22K 5% 1/4W	R514	1-216-367-11	METAL OXIDE	0.68 5% 2W F
R450	1-249-409-11	CARBON	220 5% 1/4W	R515	1-215-858-00	METAL OXIDE	15 5% 1W F
R451	1-247-704-11	CARBON	220 5% 1/4W	R516	1-214-888-00	METAL	10K 1% 1/2W
R452	1-249-409-11	CARBON	220 5% 1/4W	R517	1-214-763-00	METAL	27K 1% 1/4W
R453	1-247-704-11	CARBON	220 5% 1/4W	R518	1-214-783-00	METAL	180K 1% 1/4W
R454	1-249-417-11	CARBON	1K 5% 1/4W	R519	1-214-917-00	METAL	150K 1% 1/2W
R455	1-249-409-11	CARBON	220 5% 1/4W	R520	1-215-467-00	METAL	82K 1% 1/6W
R456	1-249-409-11	CARBON	220 5% 1/4W	R521	1-215-445-00	METAL	10K 1% 1/6W
R457	1-249-409-11	CARBON	220 5% 1/4W	R522	1-247-887-00	CARBON	220K 5% 1/4W
R458	1-249-433-11	CARBON	22K 5% 1/4W	R523	1-215-435-00	METAL	3.9K 1% 1/6W
R459	1-249-425-11	CARBON	4.7K 5% 1/4W	R524	1-249-469-11	CARBON	100K 5% 1/4W
R460	1-249-425-11	CARBON	4.7K 5% 1/4W	R525	1-215-445-00	METAL	10K 1% 1/6W
R461	1-249-433-11	CARBON	22K 5% 1/4W	R526	1-215-439-00	METAL	5.6K 1% 1/6W
R462	1-249-386-11	CARBON	2.7 5% 1/4W F	R527	1-249-417-11	CARBON	1K 5% 1/4W
R464	1-259-883-11	CARBON	3.9M 5% 1/4W	R528	1-215-877-11	METAL OXIDE	22K 5% 1W F
R465	1-249-465-11	CARBON	47K 5% 1/4W	R529	1-216-360-11	METAL OXIDE	8.2 5% 1W F
R466	1-249-421-11	CARBON	2.2K 5% 1/4W	R530	1-216-427-00	METAL OXIDE	120 5% 1W F
R467	1-249-431-11	CARBON	15K 5% 1/4W	R531	1-247-756-11	CARBON	2.2K 5% 1/2W F
R468	1-249-431-11	CARBON	15K 5% 1/4W	R532	1-249-436-11	CARBON	39K 5% 1/4W
R469	1-247-897-11	CARBON	560K 5% 1/4W	R533	1-249-422-11	CARBON	2.7K 5% 1/4W
R470	1-249-437-11	CARBON	47K 5% 1/4W	R534	1-247-719-11	CARBON	3.3K 5% 1/4W
R471	1-249-429-11	CARBON	10K 5% 1/4W	R535	1-215-441-00	METAL	6.8K 1% 1/6W
R472	1-249-417-11	CARBON	1K 5% 1/4W	R536	1-249-433-11	CARBON	22K 5% 1/4W
R473	1-249-437-11	CARBON	47K 5% 1/4W	R537	1-249-417-11	CARBON	1K 5% 1/4W F
R474	1-249-429-11	CARBON	10K 5% 1/4W	R538	1-249-430-11	CARBON	12K 5% 1/4W
R475	1-249-417-11	CARBON	1K 5% 1/4W	R539	1-247-883-00	CARBON	150K 5% 1/4W
R476	1-249-401-11	CARBON	47 5% 1/4W	R540	1-246-535-00	CARBON	390K 5% 1/4W
R477	1-249-417-11	CARBON	1K 5% 1/4W	R541	1-247-889-00	CARBON	270K 5% 1/4W
R478	1-249-401-11	CARBON	47 5% 1/4W	R542	1-249-438-11	CARBON	56K 5% 1/4W
R479	1-249-417-11	CARBON	1K 5% 1/4W	R543	1-247-903-00	CARBON	1M 5% 1/4W
R480	1-249-401-11	CARBON	47 5% 1/4W	R544	1-215-447-00	METAL	12K 1% 1/6W
R481	1-249-433-11	CARBON	22K 5% 1/4W	R545	1-249-417-11	CARBON	1K 5% 1/4W
R482	1-249-433-11	CARBON	22K 5% 1/4W	R546	1-249-409-11	CARBON	220 5% 1/4W
R483	1-249-433-11	CARBON	22K 5% 1/4W	R547	1-249-414-11	CARBON	560 5% 1/4W
R484	1-247-891-00	CARBON	330K 5% 1/4W	R548	1-249-415-11	CARBON	680 5% 1/4W
R485	1-247-891-00	CARBON	330K 5% 1/4W	R549	1-215-473-00	METAL	150K 1% 1/6W
R486	1-249-433-11	CARBON	22K 5% 1/4W	R550	1-249-433-11	CARBON	22K 5% 1/4W
R487	1-249-433-11	CARBON	22K 5% 1/4W	R551	1-247-688-11	CARBON	10 5% 1/4W F
R488	1-249-418-11	CARBON	1.2K 5% 1/4W F	R552	1-249-421-11	CARBON	2.2K 5% 1/4W
R489	1-249-421-11	CARBON	2.2K 5% 1/4W	R553	1-249-429-11	CARBON	10K 5% 1/4W
R490	1-247-895-00	CARBON	470K 5% 1/4W	R554	1-249-461-11	CARBON	18K 5% 1/4W
R491	1-249-420-11	CARBON	1.8K 5% 1/4W	R555	1-249-426-11	CARBON	5.6K 5% 1/4W
R492	1-249-417-11	CARBON	1K 5% 1/4W	R556	1-247-707-11	CARBON	390 5% 1/4W
R493	1-249-441-11	CARBON	100K 5% 1/4W	R557	1-215-463-00	METAL	56K 1% 1/6W
R494	1-249-413-11	CARBON	470. 5% 1/4W	R558	1-215-457-00	METAL	33K 1% 1/6W
R495	1-249-433-11	CARBON	22K 5% 1/4W	R559	1-215-453-00	METAL	22K 1% 1/6W
R496	1-249-433-11	CARBON	22K 5% 1/4W	R560	1-215-479-00	METAL	270K 1% 1/6W
R497	1-249-437-11	CARBON	47K 5% 1/4W	R561	1-249-435-11	CARBON	33K 5% 1/4W
R498	1-249-433-11	CARBON	22K 5% 1/4W	R562	1-249-422-11	CARBON	2.7K 5% 1/4W
R499	1-249-433-11	CARBON	22K 5% 1/4W	R563	1-249-428-11	CARBON	8.2K 5% 1/4W
R500A.		METAL	1/6W	R564	1-215-445-00	METAL	10K 1% 1/6W
R501	1-247-711-11	CARBON	680 5% 1/4W F	R565	1-249-413-11	CARBON	470 5% 1/4W F
R502	1-216-464-11	METAL OXIDE	18K 5% 2W F	R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R503	1-249-440-11	CARBON	82K 5% 1/4W	R567	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R504	1-249-426-11	CARBON	5.6K 5% 1/4W	R568	1-249-401-11	CARBON	47 5% 1/4W F
R505	1-249-440-11	CARBON	82K 5% 1/4W	R569	1-215-869-11	METAL OXIDE	1K 5% 1W F
R506	1-249-431-11	CARBON	15K 5% 1/4W	R570	1-247-697-11	CARBON	56 5% 1/4W F
R507	1-215-458-00	METAL	36K 1% 1/6W	R571	1-215-867-00	METAL OXIDE	470 5% 1W F
R508	1-247-723-11	CARBON	6.8K 5% 1/4W F	R572	1-216-355-11	METAL OXIDE	3.3 5% 1W F
R509	1-249-423-11	CARBON	3.3K 5% 1/4W F	R573	1-247-746-11	CARBON	390 5% 1/2W
R510	1-216-454-11	METAL OXIDE	390 5% 2W F	R574	1-249-425-11	CARBON	4.7K 5% 1/4W
R511	1-215-447-00	METAL	12K 1% 1/6W	R575	1-247-688-11	CARBON	10 5% 1/4W F
R512A.	1-212-883-91	FUSIBLE	120 5% 1/4W F	R576	1-247-889-00	CARBON	270K 5% 1/4W
R513	1-249-383-11	CARBON	1.5 5% 1/4W F				

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

PVM-2043MD

**A**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R577	1-249-396-11	CARBON		R843	1-247-704-11	CARBON	
R578	1-249-433-11	CARBON		R844	1-249-417-11	CARBON	
R579	1-249-433-11	CARBON		R845	1-247-725-11	CARBON	
R580	1-249-433-11	CARBON		R846	1-215-439-00	METAL	
R581	1-249-429-11	CARBON		R847	1-249-433-11	CARBON	
R582	1-249-429-11	CARBON		R848	1-249-433-11	CARBON	
R583	1-249-438-11	CARBON		R850	1-249-440-11	CARBON	
R584	1-247-881-00	CARBON		R851	1-249-439-11	CARBON	
R585	1-249-431-11	CARBON		R852	1-249-437-11	CARBON	
R586	1-215-453-00	METAL		R853	1-247-710-11	CARBON	
R587	1-249-429-11	CARBON		R855	1-249-414-11	CARBON	
R588	1-247-688-11	CARBON		R856	1-249-429-11	CARBON	
R589	1-249-417-11	CARBON		R857	1-247-725-11	CARBON	
R590	1-249-433-11	CARBON		R858	1-249-433-11	CARBON	
R591	1-249-433-11	CARBON		R860	1-249-425-11	CARBON	
R592	1-249-417-11	CARBON		R861	1-249-437-11	CARBON	
R593	1-249-425-11	CARBON		R862	1-249-425-11	CARBON	
R594	1-247-719-11	CARBON		R863	1-247-721-11	CARBON	
R595	1-249-417-11	CARBON		R864	1-247-717-11	CARBON	
R596	1-247-721-11	CARBON		R866	1-249-426-11	CARBON	
R597	1-215-441-00	METAL		R867	1-249-426-11	CARBON	
R598	1-247-725-11	CARBON		R868	1-249-421-11	CARBON	
R599	1-247-711-11	CARBON		R869	1-249-425-11	CARBON	
R800	1-215-449-00	METAL		R870	1-249-426-11	CARBON	
R801	1-247-889-00	CARBON		R871	1-247-723-11	CARBON	
R802	1-215-429-00	METAL		R872	1-249-417-11	CARBON	
R803	1-249-465-11	CARBON		R873	1-249-437-11	CARBON	
R804	1-247-726-11	CARBON		R874	1-215-437-00	METAL	
R805	1-249-407-11	CARBON		R875	1-215-453-00	METAL	
R806	1-249-412-11	CARBON		R876	1-249-429-11	CARBON	
R807	1-249-437-11	CARBON		R877	1-249-417-11	CARBON	
R808	1-249-433-11	CARBON		R878	1-249-429-11	CARBON	
R809	1-215-477-00	METAL		R879	1-249-437-11	CARBON	
R810	1-215-467-00	METAL		R880	1-249-417-11	CARBON	
R811	1-249-429-11	CARBON		R881	1-249-423-11	CARBON	
R812	1-249-427-11	CARBON		R883	1-249-409-11	CARBON	
R813	1-249-405-11	CARBON		R884	1-249-417-11	CARBON	
R814	1-249-417-11	CARBON		R885	1-249-469-11	CARBON	
R815	1-249-409-11	CARBON		R886	1-247-725-11	CARBON	
R816	1-249-429-11	CARBON		R887	1-249-409-11	CARBON	
R817	1-247-881-00	CARBON		R1001	1-247-717-11	CARBON	
R818	1-247-881-00	CARBON		R1002	1-249-429-11	CARBON	
R819	1-247-903-00	CARBON		R1003	1-249-405-11	CARBON	
R820	1-249-426-11	CARBON		R1004	1-247-725-11	CARBON	
R821	1-247-881-00	CARBON		R1005	1-249-437-11	CARBON	
R822	1-249-417-11	CARBON		R1006	1-249-439-11	CARBON	
R823	1-247-696-11	CARBON		R1007	1-249-433-11	CARBON	
R824	1-249-439-11	CARBON		R1009	1-249-429-11	CARBON	
R825	1-249-437-11	CARBON		R1010	1-249-415-11	CARBON	
R826	1-249-417-11	CARBON		R1011	1-249-455-11	CARBON	
R827	1-249-417-11	CARBON		R1012	1-216-355-11	METAL OXIDE	
R828	1-249-417-11	CARBON		R1013	1-249-413-11	CARBON	
R829	1-249-421-11	CARBON		R1014	1-249-414-11	CARBON	
R830	1-249-435-11	CARBON		R1015	1-215-867-00	METAL OXIDE	
R831	1-249-438-11	CARBON		R1016	1-247-698-11	CARBON	
R832	1-249-417-11	CARBON		R1017	1-249-421-11	CARBON	
R833	1-249-425-11	CARBON		R1018	1-249-437-11	CARBON	
R834	1-249-425-11	CARBON		R1019A	1-212-857-91	FUSIBLE	
R835	1-247-889-00	CARBON		R1020	1-249-429-11	CARBON	
R836	1-247-897-11	CARBON		R1021	1-249-434-11	CARBON	
R837	1-215-469-00	METAL		R1022	1-249-428-11	CARBON	
R838	1-246-531-00	CARBON		R1023	1-249-428-11	CARBON	
R840	1-247-696-11	CARBON		R1024	1-247-903-00	CARBON	
R842	1-249-409-11	CARBON					

# PVM-2043MD

A

XA

W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1025	1-249-429-11	CARBON 10K 5% 1/4W	
R1026	1-249-429-11	CARBON 10K 5% 1/4W	
R1027	1-215-454-00	METAL 24K 1% 1/6W	
R1301	1-249-429-11	CARBON 10K 5% 1/4W	
R1302	1-247-725-11	CARBON 10K 5% 1/4W	
R1303	1-249-429-11	CARBON 10K 5% 1/4W	
R1304	1-249-405-11	CARBON 100 5% 1/4W	
R1306	1-247-700-11	CARBON 100 5% 1/4W	
R1307	1-249-421-11	CARBON 2.2K 5% 1/4W	

## <VARIABLE RESISTOR>

RV002	1-228-993-00	RES. ADJ. CARBON 4.7K	
RV003	1-228-993-00	RES. ADJ. CARBON 4.7K	
RV004	1-228-993-00	RES. ADJ. CARBON 4.7K	
RV005	1-228-996-00	RES. ADJ. CARBON 47K	
RV006	1-228-994-00	RES. ADJ. CARBON 10K	
RV007	1-228-994-00	RES. ADJ. CARBON 10K	
RV401	1-228-995-00	RES. ADJ. CARBON 22K	
RV501	1-228-993-00	RES. ADJ. METAL GLAZE 4.7K	
RV502	1-223-102-00	RES. ADJ. WIREWOUND 120	
RV503	1-228-995-00	RES. ADJ. METAL GLAZE 22K	
RV504	1-228-990-00	RES. ADJ. CARBON 1K	
RV505	1-228-995-00	RES. ADJ. CARBON 22K	
RV506	1-228-989-00	RES. ADJ. CARBON 470	
RV507	1-224-250-99	RES. ADJ. METAL GLAZE 2.2K	
RV508	1-228-994-00	RES. ADJ. CARBON 10K	
RV509	1-228-998-00	RES. ADJ. CARBON 220K	
RV510	1-228-996-00	RES. ADJ. CARBON 47K	
RV511	1-228-989-00	RES. ADJ. CARBON 470	
RV512	1-228-995-00	RES. ADJ. CARBON 22K	
RV513	1-228-993-00	RES. ADJ. METAL GLAZE 4.7K	
RV514	1-228-996-00	RES. ADJ. CARBON 47K	
RV550	1-228-993-00	RES. ADJ. CARBON 4.7K	

## <TRANSFORMER>

T502	1-437-131-00	TRANSFORMER, DRIVE	
------	--------------	--------------------	--

## <THERMISTOR>

TH501	1-806-110-00	THERMISTOR	
-------	--------------	------------	--

\*\*\*\*\*

\*1-629-151-11 XA BOARD  
\*\*\*\*\*

## <CAPACITOR>

C1300	1-101-005-00	CERAMIC 0.022MF 50V	
C1301	1-101-888-00	CERAMIC 68PF 5% 50V	
C1302	1-101-884-00	CERAMIC 56PF 5% 50V	
C1303	1-102-942-00	CERAMIC 5PF 1PF 50V	
C1304	1-102-947-00	CERAMIC 10PF 0.5PF 50V	
C1305	1-102-947-00	CERAMIC 10PF 0.5PF 50V	
C1306	1-102-951-00	CERAMIC 15PF 5% 50V	
C1307	1-102-951-00	CERAMIC 15PF 5% 50V	
C1308	1-126-101-11	ELECT 100MF 20% 16V	
C1309	1-102-125-00	CERAMIC 0.0047MF 10% 50V	

## <TRIMMER>

CV3	1-141-337-11	CAP. VAR. TRIMMER	
CV4	1-141-337-11	CAP. VAR. TRIMMER	

REF. NO. PART NO. DESCRIPTION REMARK

## <COIL>

L1300	1-408-429-00	INDUCTOR 470UH	
L1301	1-408-429-00	INDUCTOR 470UH	
L1302	1-408-429-00	INDUCTOR 470UH	
L1303	1-408-429-00	INDUCTOR 470UH	

## <TRANSISTOR>

Q1300	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1301	8-729-900-89	TRANSISTOR DTC144ES	
Q1302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1304	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1305	8-729-119-78	TRANSISTOR 2SC2785-HFE	

## <RESISTOR>

R1301	1-249-413-11	CARBON 470 5% 1/4W	
R1302	1-249-415-11	CARBON 680 5% 1/4W	
R1303	1-249-415-11	CARBON 680 5% 1/4W	
R1304	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1305	1-249-413-11	CARBON 470 5% 1/4W	
R1306	1-249-413-11	CARBON 470 5% 1/4W	
R1308	1-249-417-11	CARBON 1K 5% 1/4W	
R1310	1-249-441-11	CARBON 100K 5% 1/4W	
R1311	1-249-441-11	CARBON 100K 5% 1/4W	
R1312	1-249-441-11	CARBON 100K 5% 1/4W	
R1313	1-249-441-11	CARBON 100K 5% 1/4W	
R1320	1-249-429-11	CARBON 10K 5% 1/4W	
R1321	1-249-429-11	CARBON 10K 5% 1/4W	
R1322	1-249-429-11	CARBON 10K 5% 1/4W	
R1323	1-249-429-11	CARBON 10K 5% 1/4W	

## <CRYSTAL>

X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

## <CONNECTOR>

XA1	*1-565-483-11	CONNECTOR, BOARD TO BOARD 7P	
-----	---------------	------------------------------	--

\*\*\*\*\*

\*1-629-149-11 W BOARD  
\*\*\*\*\*

## <CAPACITOR>

C1400	1-136-169-00	FILM 0.22MF 5% 50V	
C1401	1-136-153-00	FILM 0.01MF 5% 50V	
C1402	1-126-101-11	ELECT 100MF 20% 50V	
C1403	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C1404	1-126-101-11	ELECT 100MF 20% 50V	
C1405	1-123-875-11	ELECT 10MF 20% 50V	
C1406	1-124-902-00	ELECT 0.47MF 20% 50V	

## <DIODE>

D1400	8-719-911-19	DIODE 1SS119	
D1401	8-719-911-19	DIODE 1SS119	



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

PVM-2043MD

W

H

J

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<IC>							
IC1400	8-759-135-80	IC UPC358C					
<TRANSISTOR>							
Q1400	8-729-119-78	TRANSISTOR 2SC2785-HFE		$\Delta$ 1-237-614-12		RESISTOR ASSY, HIGH-VOLTAGE	
Q1401	8-729-119-76	TRANSISTOR 2SA1175-HFE		$\Delta$ 1-426-450-11		COIL, DEMAGNETIZATION	
Q1402	8-729-119-78	TRANSISTOR 2SC2785-HFE		$\Delta$ 1-451-349-11		DEFLECTION YUKE (Y20FZA)	
Q1403	8-729-119-78	TRANSISTOR 2SC2785-HFE		1-452-032-00		MAGNET, DISK; 10MM $\phi$	
<RESISTOR>				1-452-094-00		MAGNET, ROTATABLE DISK; 15MM $\phi$	
R1400	1-249-437-11	CARBON	47K 5% 1/4W	1-452-277-00		MAGNET, BMC	
R1401	1-249-415-11	CARBON	680 5% 1/4W	1-466-076-21		CONTROL UNIT	
R1402	1-247-895-00	CARBON	470K 5% 1/4W	1-543-604-11		CORE, RING	
R1403	1-247-903-00	CARBON	1M 5% 1/4W	1-544-063-11		SPEAKER	
R1404	1-249-438-11	CARBON	56K 5% 1/4W	$\Delta$ 1-574-389-12		CORD, POWER (WITH CONNECTOR)	
R1405	1-249-433-11	CARBON	22K 5% 1/4W	S901 $\Delta$ 1-554-967-12		SWITCH, PUSH (AC POWER) (1 KEY)	
R1406	1-249-411-11	CARBON	330 5% 1/4W	V901 $\Delta$ 8-736-122-05		PICTURE TUBE (M49KGH21X)	
R1407	1-249-433-11	CARBON	22K 5% 1/4W	*****			
R1408	1-249-411-11	CARBON	330 5% 1/4W	ACCESSORIES AND PACKING MATERIALS			
R1409	1-249-429-11	CARBON	10K 5% 1/4W	*****			
R1410	1-249-409-11	CARBON	220 5% 1/4W	PART NO.	DESCRIPTION	REMARK	
R1411	1-249-426-11	CARBON	5.6K 5% 1/4W	X-4391-815-1	BRACKET ASSY		
R1412	1-249-411-11	CARBON	330 5% 1/4W	3-750-351-12	MANUAL, INSTRUCTION		
R1413	1-247-883-00	CARBON	150K 5% 1/4W	4-393-369-01	COVER, CONTROL		
R1414	1-249-429-11	CARBON	10K 5% 1/4W	*3-704-318-01	BAG, PROTECTION		
R1416	1-249-429-11	CARBON	10K 5% 1/4W	*4-393-346-01	CUSHION (UPPER) (ASSY)		
R1417	1-249-433-11	CARBON	22K 5% 1/4W	*4-393-347-01	CUSHION (LOWER) (ASSY)		
R1418	1-249-439-11	CARBON	68K 5% 1/4W	*4-393-356-01	INDIVIDUAL CARTON		
R1419	1-249-440-11	CARBON	82K 5% 1/4W	7-682-247-09	SCREW +K 3X6		
R1420	1-249-441-11	CARBON	100K 5% 1/4W	7-685-663-79	SCREW +BVTP 4X16 TYPE2 IT-3		
R1421	1-247-881-00	CARBON	120K 5% 1/4W				
<CONNECTOR>							
W1	*1-565-482-11	CONNECTOR, BOARD TO BOARD 6P					
W2	*1-564-508-11	PLUG, CONNECTOR 5P					
*****							
*1-632-005-11 H BOARD							
*****							
*1-564-517-11 PLUG, CONNECTOR 2P							
<CONNECTOR>							
H1	*1-564-519-11	PLUG, CONNECTOR 4P					
<SWITCH>							
S951 $\Delta$ 1-554-118-22		SWITCH, PUSH (1 KEY) (DEGAUSS SWITCH)					
S952	1-554-118-00	SWITCH, PUSH (1 KEY)					
*****							
*1-629-153-11 J BOARD							
*****							
*1-568-106-11 PIN, CONNECTOR 7P							
*****							
MISCELLANEOUS							
*****							

PVM-2043MD